# INDEPENDENT ORBITER ASSESSMENT

# ASSESSMENT OF THE MECHANICAL ACTUATION SUBSYSTEM VOLUME 2 OF 2

7 MARCH 1988

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ASSESSMENT ASSESSMENT NASA FMEA #	DATE: ID:	MECH/SI	100 <b>A</b> )1-1			NASA BASE	LINE [ NEW [	x	]		
SUBSYSTEM: MDAC ID: ITEM:		MECH/SI 9100 INPUT/C		JT SHAF	т -	HOUSI	NG				
LEAD ANALYS	ST:	H.J. L	OWER!	Y							
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SUBSYSTEM: MDAC ID: ITEM:	MECH/SDM 9101 INPUT/OUT	PUT SHAF	T - HOUS	SING	
LEAD ANALYST:	H.J. LOWE	RY			
ASSESSMENT:					
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	MECH/SDM 9101 INPUT/OUTPUT	SHAFT - HOUS	SING	
LEAD ANALYST:	H.J. LOWERY			
ASSESSMENT:				
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SUBSYSTEM: MDAC ID: ITEM:	MECH/PBR 16513 LINKAGE AS	SEMBLY		
LEAD ANALYST:	W. SLAUGHT	ER		
ASSESSMENT:				
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SUBSYSTEM: MDAC ID: ITEM:	MECH/PBR 6208 GEARBOX			
LEAD ANALYST:	W.T. SLAUC	HTER		
ASSESSMENT:				
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IOA AGREES WITH THE NASA FMEA/CIL.

ASSESSM NASA FM	ENT	I	D:	1	2/19/ MECH/ D2-40	/PE	BR-	621: -1	lA					ASA DA Baseli N			x	]	
SUBSYST MDAC ID ITEM:				(	MECH/ 5211 DEPLO			т тс	DRQU	E	SHA:	FT							
LEAD AN	ALY	ST	:	V	7.T.	SI	ΑU	GHTE	ER										
ASSESSMI	ENT	:																	
		F	ICA LIG	ΗT			R	EDUN	IDAN	CY	SCI	REEN	S			CI [T	L EM	-	
	1	HDI	W/F	UNC	:		A			В			C						
NASA IOA	[	1	/1 /1	] R ]		[	P	]	[	P	]	]	P	]	[	• · ·	X	]	*
COMPARE	[	N	/N	)		[	N	]	נ	N	]	[	N	]	(	; 1	N	]	
RECOMMEN	[ADI	CIC	ONS:	:	(If	đ	ifi	fere	nt :	fro	om N	IASA)	l						
	[		/	]		[		]	[		J	]		-	] (ADD)	<b>/</b> I	DE:	] LE	TE)
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REMARKS: IOA AGRE	ES	WI	TH	TH	E FMI	EA/	′CI	L.							- L		•	,	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/19/88 MECH/PBR- 02-4G-176	-6113 6-1		NASA DATA: BASELINE NEW									
	MECH/PBR 6113 LATCH HOO	ок месна	NISM										
LEAD ANALYST:	W.T. SLA	UGHTER											
ASSESSMENT:													
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM HDW/FUNC A B C													
HDW/FU													
NASA [ 2 /1R IOA [ 3 /3	] [	P ] [	P ]	[ P ] [ ]	[ X ] *								
COMPARE [ N /N	] [ ]	и ] [	[ N ]	[и]	[ N ]								
RECOMMENDATIONS:	(If di	fferent	from NAS	A)									
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* CIL RETENTION	RATIONALE	: (If ap	plicable	e) ADEQUATE INADEQUATE	[ x ]								
REMARKS: IOA DOES NOT AGR WORSE CASE FAILU LATCH PAIR. THI BE CRITICALITY T	RE WOULD S WILL NO	BE LOSS	OF ABILI	TY TO RELEAS	SE/LATCH A E AND SHOULD								

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/19/88 MECH/PBR- 02-4G-179	-6103 9-2		A DATA: SELINE [ ] NEW [ X ]									
SUBSYSTEM: MDAC ID: ITEM:	MECH/PBR 6103 MOTOR BRA	AKE											
LEAD ANALYST:	W.T. SLAU	<b>JGHTER</b>											
ASSESSMENT:													
FLIGH	CRITICALITY REDUNDANCY SCREENS FLIGHT HDW/FUNC A B C												
HDW/FU	NC A	В	C	ITEM									
NASA [ 3 /1R IOA [ 3 /3		?] [F	] [ P ] ] [ ]	[ X ] * [ ]									
COMPARE [ /N	] [ N	и] [и	] [ N ]	[ N ]									
RECOMMENDATIONS:	(If dif	ferent fr	om NASA)										
[ /	] [	] [	] [ ]	[ ] (ADD/DELETE)									
* CIL RETENTION REMARKS:		(If appl		UATE [ X ] UATE [ ]									

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SUBSYSTEM MDAC ID:	<b>4</b> :			MECH 6107 GEAF	7														
LEAD ANA	LYS	T:	:	W.T.	. SI	Ā	UG	HTER											
ASSESSME	NT:	}																	
	CR]		[CAL				RE	DUNE	NAC	CY	SCR	EENS	3			CI		í	
	I		LIGH' N/FU				A			В			С						
NASA IOA	[	2	/1R /1R	]		[	P P	]	[	P P	]	[ [	P P	]		[	X	]	*
COMPARE	[	N	/	1		[		]	[		]	[		]		[	N	]	
RECOMMEN	DA'	TI	ons:	(	Ιf	di	if	fere	nt	fr	om N	ASA	)						
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* CIL RE	CTE	NT	ION	RATI	ONA	L	Е:	(If	aŗ	pl	icab			DEQUAT DEQUAT		_		]	
REMARKS:	EES	W	ITH	THE	FME	A,	/C	IL.											

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SUBSYST MDAC ID ITEM:				610	CH/I 08 ARBO		R												
LEAD AN	ALY	ST	:	W.J	r. s	L	AU	GHTI	ER										
ASSESSMI	ENT	:																	
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RECOMMEN	IDA'	ric	ONS:	(	Ιf	di	.f1	ere	nt i	fro	om N	ASA)	•						
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REMARKS: IOA AGRE	ES	WI	TH :	THE :	FME	A/	CI	L.							- L			ı	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/19/88 MECH/PBR- 02-4G-181		NASA DATA: BASELINE NEW								
SUBSYSTEM: MDAC ID: ITEM:	MECH/PBR 6111 LATCH TOR	QUE SHAF	TT ASSEME	BLY							
LEAD ANALYST:	W.T. SLAU	GHTER									
ASSESSMENT:											
CRITICAL FLIGH	CIL ITEM										
HDW/FU	_	B C									
NASA [ 2 /1R IOA [ 3 /1R	] [ F	P ] [	NA] P ]	[ P ] [ P ]	[ X ] *						
COMPARE [ N /				[ ]	[ N ]						
RECOMMENDATIONS:	(If di	fferent	from NAS	A)							
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* CIL RETENTION	RATIONALE	: (If ap	plicable	) ADEQUATE INADEQUATE							
REMARKS: IOA AGREES WITH	THE FMEA/	CIL.									

ASSESSMI ASSESSMI NASA FMI	ASSESSMENT DATE: 2/19/88 ASSESSMENT ID: MECH/PBR-6112 NASA FMEA #: 02-4G-181-2 SUBSYSTEM: MECH/PBR												ASA DAT BASELIN NE		] ( ]	
SUBSYSTI MDAC ID: ITEM:	em:			MECH/ 6112 LATCH			ARY 1	ACT	UA	TOR						
LEAD ANA	ALY	ST	:	W.T.	SL	AU	GHTEI	<b>R</b>								
ASSESSME	ENT	:														
		F	LIGH	_			EDUNI	OAN			EENS			CII	_	
		שנו	M/FU	NC		A			В			C				
NASA IOA	[	2	/1R /3	]	[	P	]	[	N	<b>A</b> ]	<b>[</b>	P	]	[	]	*
COMPARE	[	N	/N	]	[	N	]	[	N	]	[	N	]	[	]	
RECOMMEN	DA:	ric	ONS:	(If	đ:	Ĺf1	feren	t 1	îro	om NA	SA)					
	[	3	/3	]	[		]	[		]	[			DD/D		TE)
* CIL RE	TEN	T]	ON F	RATION	ALE	: :	(If	apr	ı i	cabl	۱۵					
REMARKS:												AD	EQUATE EQUATE	[	]	
IOA DOES SHOULD BI A SINGLE	E A	, C	RITI	CALITY	7 Т	'HR	EF (	31	AS EC	THE T MI	LO SSI	SS ON	OF ABI	LITY	то	LATCH
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REPORT DATE 03/07/88 C-526

NASA DATA:

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ASSESSME	NT	:																
	CRITICALITY FLIGHT								Y	SCF	REENS	5			IL TEM	£		
	1	_	JIGH. N/FUI			A			В			С		_	LL	1		
NASA IOA				]	[	P	]	]	F	]	[	P	]	[	X	]	*	
COMPARE	[	N	/N	]	[	N	]	[	N	]	[	N	1	[	N	]		
REC			<b>NS:</b>	(I:	£ d	ifi	fere	nt i	fr	om N	IASA	)						
			/3	]	[		]	[		]	[		] (A		D /DI		ETE)	
* C			ON :	RATIO	NAL	E:	(If	app	<b>)</b> 1:	icak						]		
REM IOA SHO A S	ADEQUATE [ ] INADEQUATE [ ]  AGREE WITH FMEA/CIL. RITICALITY THREE (3) AS THE LOSS OF ABILITY TO LATCH H PAIR SHOULD NOT AFFECT MISSION CONTINUANCE.																	

ASSESSMENT DAT ASSESSMENT ID: NASA FMEA #:	E: 2/19/88 MECH/PE 02-4G-1	R-6105			TA: NE [ ] EW [ X ]								
SUBSYSTEM: MDAC ID: ITEM:	MECH/PE 6105 TORQUE	R LIMITER											
LEAD ANALYST:	W.T. SI	AUGHTER											
ASSESSMENT:													
CRITIC FLI HDW/	CIL ITEM												
•		A	В	С									
NASA [ 2 / IOA [ 3 /	1R ] [ 3 ] [	F ]	[ F ] [ ]	[ P ] [ ]	[ X ] * [ ]								
COMPARE [ N /	и ] [	N ]	[ N ]	[ N ]	[ N ]								
RECOMMENDATION	S: (If d	ifferent	from	NASA)									
[ 3 /	3 ] [	]	[ ]	- <del>-</del>	[ D ] (ADD/DELETE)								
* CIL RETENTIO	CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ ] INADEQUATE [ X ]												
IOA DOES NOT A		FMEA/CII	J•										

FAILURE TO ENGAGE OF OUR TORQUE LIMITER RESULTS IN LOSS OF ROTARY INPUT OF ONE DRIVE MOTOR. OTHER DRIVE MOTOR SHOULD EFFECT RELEASE/LATCH STATE IN SINGLE MOTOR DRIVE TIME. SHOULD BE A CRITICALITY THREE (3) AS MISSION CONTINUANCE NOT AFFECTED.

ASSF	'E: 2/19			NASA DA BASELI	
ASSI NAS <i>i</i>		H/PBR-6104 4G-183-2			NE [ ] EW [ X ]
SUB: MDA: ITEI	610	H/PBR 4 QUE LIMITER	ł.		
LEA!	W.T	. SLAUGHTER	ł		
ASS:					
	CALITY ,IGHT		ANCY SCR B	EENS C	CIL ITEM
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	/1R ] /3 ]	[ <b>F</b> ]	[ F ] [ ]	[ P ] [ ]	[ X ] * [ ]
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REI IOA AGREE	S WITH THE	FMEA/CIL.			

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/26/88 MECH/PBR-1 02-4G-184-			ASA DATA BASELINE NEW	-	]
SUBSYSTEM: MDAC ID: ITEM:	MECH/PBR 16514 ROLLER ASS	SEMBLY LAT	TCH RADIA	TOR		
LEAD ANALYST:	W. SLAUGHT	TER				
ASSESSMENT:						
CRITICALI FLIGHT		EDUNDANCY	SCREENS		CIL ITEM	ĭ
HDW/FUN	IC A	В	C			
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RECOMMENDATIONS:	(If diff	erent fro	om NASA)			
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* CIL RETENTION R REMARKS: IOA AGREES WITH F		(If appli	ΑI	DEQUATE DEQUATE	[ X	]

ASSESSMENT DATE: 2/19/88 ASSESSMENT ID: MECH/PBR-63022 NASA FMEA #: 02-4G-186-1 SUBSYSTEM: MECH/PBR													J		SA 1 ASE		E		x	]	
SUBSYSTEM MDAC ID: ITEM:	1:			63				'INGS	5/P	ΟI	NTS	5									
LEAD ANAI	LYS	T:	;	W.	T. S	LA	UG	HTEF	3												
ASSESSMEN	T:	:																			
CRITICALITY REDUNI FLIGHT HDW/FUNC A										CY B		CREEI		С				CI	L	ſ	
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RECOMMEN	DA'	TI	ons:		(If	đ	if:	fere	nt	fı	com	NAS	A)	ı							
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REMARKS:	ES	W	ITH	TH	E FM	ΕA	/c	IL.													

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SUBSYSTI MDAC ID: ITEM:				16	ECH/ 5512 VITC			DULE	E, L	IM	IT,	RAD	IA	TOR ST	OWE	D			
LEAD AND	ALY.	ST	:	W.	SL	AU	GH	TER											
ASSESSMI	ENT	:																	
		F	ICAL LIGH	T	?		R	EDUN	DAN	CY	SCI	REEN	S			CI: ETI	L EM		
	1	HDV	/FU	NC			A			В			С		•				
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COMPARE	[		/	]		[		]	[		]	[		]	(		]	]	
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IOA AGRE	ES	WI	тн т	HE	FME	:A/	CI	L.									•		

ASSESSMENT DATE: 2/19/88 ASSESSMENT ID: MECH/PBR-6501 NASA FMEA #: 05-65G-2001-0															LINE NEW	[			
SUBSYSTE MDAC ID: ITEM:				650	01			PD&C		TC	H (S	4/5	66)						
LEAD ANA	LYS	ST	:	W.:	r. s	LA	UG	HTER	1										
ASSESSME	NT	:																	
CRITICALITY REDU FLIGHT									ANC	CY	SCRE	ENS	5				IL PEM	1	
	1		W/FU				A			В			С						
NASA IOA	[	2	/1R /3	]		]	P	]	[	P	]	[ [	P	]		[	X	]	*
COMPARE	[	N	/N	]		[	N	]	[	N	]	[	N	]		[	И	]	
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REMARKS IOA AGR 6503, 6	EES	W	ITH	THE	FMI	EA,	/C	IL.	AL	so	SEE	RE	LA'	TED	MDAC	I	ים:	s (	6502,

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SUBSYSTI MDAC ID: ITEM:				MECH/ 6502 LATCH	•			CH (	(S4/S6)	
LEAD ANA	\LY	ST	:	W.T.	SLA	JGHT)	ER			
ASSESSME	CNT	:								
		F	LIGH	_	F	REDUI	NDANCY	SCF	REENS	CIL ITEM
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REMARKS: IOA AGRE 6503, 65	ES 04	W]	TH 1	THE FM	EA/C	IL.	ALSO	SEE	INADEQUATE RELATED MDA	• •

ASSESSME	SSESSMENT DATE: 2/19/88  SSESSMENT ID: MECH/PBR-6503  ASA FMEA #: 05-65G-2001-01  UBSYSTEM: MECH/PBR/EPD&C															
SUBSYSTEM MDAC ID:				MECH/P 6503 LATCH				[C]	н (S	4/S	6)					
LEAD ANA	LYS	T:		W.T. S	LAU	GHTER										
ASSESSME	NT:	}														
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* CIL RI	ETE	NT	ION	RATION	ALE	: (If	app	11	icabl	le) Il	A A	DEQUATE DEQUATE	[	x	]	
REMARKS IOA AGRI 6502, 6	EES	W	ITH	THE FM	EA/	CIL.	ALS	0	SEE	RE	LA	TED MDA	C I	ים	s	6501,

ASSESSMENT DATE: 2/19/88 ASSESSMENT ID: MECH/PBR-6504 NASA FMEA #: 05-65G-2001-01 SUBSYSTEM: MECH/PBR/EPD&C													A DATA SELINI NEV		
SUBSYST MDAC ID ITEM:				650	)4			&C L SW	ΙT	СН	(S4/	S6)			
LEAD AN	ALY	ST	:	W.I	. si	ΑU	GHT	ER							
ASSESSMI	ENT	:													
		F	LIGH					NDAN(	CY	SCI	REENS	3		CIL ITEM	
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REMARKS:											IN	ADEQ	UATE UATE	į	
IOA AGRE 6502, 65	ES 03.	WI	TH !	THE I	FMEA/	'CI	L.	ALS	0	SEE	REL	ATED	MDAC	ID's 6	501,

NASA DATA:

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SUBSYSTEM MDAC ID:			010	H/VDM 7 Roswi		POSI	TI	ои і	NDIC	ATOR	, ACT	UAT	OR			
LEAD ANA	LYSI	r:	H.J	. LOV	VERY	Ĭ.										
ASSESSME	NT:															
•					REI	OUNDAN	ICY	SCF	REENS	•			L EM			
		FLIGH DW/FU			A		E	3		С						
NASA IOA	[ :	2 /1R 2 /1R	]	[	P P	]   ]	[ F	P ] [A]	[	P ] P ]		[	X X	]	*	
COMPARE	[	/	]	[		]	[ ]	]	[	1		[		]		
RECOMMEN	DAT	ions:	: (	(If d	iff	erent	fı	com 1	NASA)	)						
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IOA AGRI	INADEQUATE [ ]  REMARKS:  IOA AGREES WITH THE FMEA/CIL.  THE DISCREPANCY BETWEEN NASA FMEA/CIL AND IOA ANALYSES ARE MARKED  AS AN ISSUE UNTIL RESOLVED WITH THE SUBSYSTEM MANAGER.															

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SUBSYSTI MDAC ID: ITEM:	:			MEC 810 MIC	8		POSIT	ION	INDICA	TOR, A	CTUA	. <b>TO</b> 1	R	
LEAD ANA	LYS	ST	:	H.J	. LO	VERY								
ASSESSME	ENT:	:												
	CRI		CAL LIGH	ITY T		REDU	NDANC	( SC	REENS			IL TEM	e	
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/VDM-8	502D 6A-2	NASA DATA: BASELINE NEW	_								
	MECH/VDM/E 8502 ACTUATOR S	PD&C										
LEAD ANALYST:	M. BRADWAY	?										
ASSESSMENT:												
CRITICAL FLIGH		EDUNDANCY SCRI	EENS	CIL ITEM								
HDW/FU	_	В	С									
NASA [ 2 /1R IOA [ 2 /1R	[ P	] [ P ] ] [ NA]	[ P ] [ P ]	[ X ] *								
COMPARE [ /	] [	] [N]	[ ]	[ ]								
RECOMMENDATIONS:	(If dif	ferent from N	ASA)									
ι /	] [	] [ ]	[ ]	[ ] ADD/DELETE)								
* CIL RETENTION	RATIONALE:	(If applicab	ole) ADEQUATE INADEQUATE									
REMARKS: IOA AGREES WITH THE FMEA/CIL. THE DISCREPANCY BETWEEN NASA FMEA/CIL AND IOA ANALYSES ARE MARKED AS AN ISSUE UNTIL RESOLVED WITH THE SUBSYSTEM MANAGER.												

ASSESSM ASSESSM NASA FM		MECH	VD	M-	810 27-	7A 2					DATA ELINE NEW		, ] k ]				
SUBSYST MDAC ID ITEM:	EM :	:			8107			сн :	POSI	TI	ON I	INDIC	ATOR	, ACT	UATO	OR.	
LEAD AN	AL:	YSI	<b>!:</b>		н.J.	LO	VE	RY									
ASSESSM	ENT	r:															
CRITICALITY REDUNDANCY SCREENS FLIGHT HDW/FUNC A B C														CII			
		HD	W/I	UN	C		A			В		(	2		TIL	11	
NASA IOA	[	2	/1 /1	LR LR	]	]	P P	]	[	P NA	] <b>A</b> ]	[ ]	? ]		[ X	]	*
COMPARE	[		/		]	[		]	[	N	]	(	]			]	
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* CIL RE	TE	NT]	ON	R	ATION	ALE	:	(If	app	li	cab.	le)					
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  REMARKS:  INADEQUATE [ ]  IOA AGREES WITH THE FMEA/CIL.																	
THE DISC AS AN IS	RE)	PAN	ICY	BE	aawn:	N N	A C	וים א	MEA/ H TH	CI E	L AI	ND IO	A ANZ M MAI	ALYSE NAGER	S AI	RE N	IARKED

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/VDM-8108A		NASA DATA: BASELINE NEW									
SUBSYSTEM: MDAC ID: ITEM:	MECH/VDM 8108 MICROSWITCH POS	ITION IND	CATOR, ACTU	JATOR								
LEAD ANALYST:	H.J. LOWERY											
ASSESSMENT:												
CRITICAL: FLIGH	ITY REDUNDA	NCY SCREE	<b>1</b> S	CIL ITEM								
	NC A	В	С									
NASA [ 2 /1R IOA [ 2 /1R	] [ P ] ] [ P ]	[ P ] [ NA]	[ P ] [ P ]	[ X ] *								
COMPARE [ /	] [ ]	[ N ]	[ ]	[ ]								
RECOMMENDATIONS:	(If different	from NAS	A)									
[ /	] [ ]	[ ]	[ ] (AI	[ ] DD/DELETE)								
* CIL RETENTION	RATIONALE: (If a		) ADEQUATE INADEQUATE	[ X ] [ ]								
REMARKS: IOA AGREES WITH THE FMEA/CIL. THE DISCREPANCY BETWEEN NASA FMEA/CIL AND IOA ANALYSES ARE MARKED AS AN ISSUE UNTIL RESOLVED WITH THE SUBSYSTEM MANAGER.												

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/19/88 MECH/VDM- 05-6AB-20	8502 <b>A</b> 27 <b>-</b> 2		NASA DATA BASELINE NEW								
SUBSYSTEM: MDAC ID: ITEM:	MECH/VDM/ 8502 ACTUATOR		10DULE									
LEAD ANALYST:	M. BRADWA	Y										
ASSESSMENT:												
CRITICAL FLIGH		EDUNDANC	CY SCREEN	s	CIL							
HDW/FU			В	С	ITEM							
NASA [ 2 /1R IOA [ 2 /1R	] [ P	] [	P ] [ NA] [	P ] P ]	[ X ] * [ X ]							
COMPARE [ /	] [	] [	и ] [	]	[ ]							
RECOMMENDATIONS:	(If dif	ferent f	rom NASA	)								
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* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]												
THE DISCREPANCY I AS AN ISSUE UNTIL	BETWEEN NAS	SA FMEA/	CIL AND ]	OA ANALYSE	S ARE MARKED							

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	NASA DATA: BASELINE NEW											
SUBSYSTEM: MDAC ID: ITEM:	MECH/VDM 8107 MICROSWITCH	POSITION INDI	CATOR, ACTU	JATOR								
LEAD ANALYST:	H.J. LOWERY											
ASSESSMENT:												
CRITICAI FLIGH		UNDANCY SCREEN	S	CIL ITEM								
HDW/FU		В	С									
NASA [ 2 /1F IOA [ 2 /1F	R ] [ P ]	[ P ] [ [ NA] [	P ] P ]	[ X ] *								
COMPARE [ /	] [ ]	[ N ]	]	[ ]								
RECOMMENDATIONS	: (If diffe	rent from NASA	A)									
[ /	] [ ]	[ ]	[ ] <b>(</b> A)	[ ] MDD/DELETE)								
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]												
REMARKS: IOA AGREES WITH THE FMEA/CIL. THE DISCREPANCY BETWEEN NASA FMEA/CIL AND IOA ANALYSES ARE MARKED AS AN ISSUE UNTIL RESOLVED WITH THE SUBSYSTEM MANAGER.												

ASSESSME ASSESSME NASA FME	NT   NT : A # :	DATE: ID: :	2/19/ MECH/ 05-6/	/88 /VDN \B-2	1-81 2028	880			NASA BASI	DATA ELINE NEW	[	) x ]	
SUBSYSTEM MDAC ID:			MECH/ 8108 MICRO			POSI	TION	INDIC	CATOR	ACT	UAT	OR	
LEAD ANAI	LYSI	r:	H.J.	LOW	ERY								
ASSESSMEN	T:												
C		'ICAL	ITY r		REDU	INDAN	CY S	CREENS	}		CII		
		W/FUI		•	A			С		ITE	EM		
NASA IOA	[ 2 [ 2	/1R /1R	]	]	P ]	[	P ] NA]	[ [	P ] P ]		K ]	[ ]	*
COMPARE	]	/	]	[	]	[	и ј	[	]		[		
RECOMMEND	ATI	ons:	(If	di	ffer	ent i	from	NASA)					
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* CIL RET	ENT:	ION R	ATIONA	LE:	(I	f app	lica	ble)					
REMARKS:	s Wi	гтн т	HE FME	A/C	CIL.			INZ	ADEQUA ADEQUA	ATE	•	•	
THE DISCRI	EPAI	NCY B	ETWEEN	NA	CA 1	FMEA/ TH TH	CIL E SU	AND IC	ANA ANA	ALYSE: IAGER	S Al	RE	MARKED

ASSESSMEN ASSESSMEN NASA FME	502] 8	В					ASELIN NE										
SUBSYSTEM MDAC ID:			850	H/VD 2 UATO				ODI	JLE								
LEAD ANA	LYST	:	M.	BRAD	WAY	7											
ASSESSME	NT:																
1		ICAL LIGH			RI	EDUN	DANC	Y:	SCRE	ENS	,			IL TEN	1		
	_	W/FU			A			В			С						
NASA IOA	[ 2	/1R /1R	]	[	P P	]	[ [	P NA	]	[	P P	]	[ ]	X X	]	*	
COMPARE	[	/	]	(		]	[	N	]	[		]	[		]		
RECOMMEN	DATI	ons:		(If d	lif	fere	nt i	fro	m NA	ASA)	l						
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* CIL RE	TENT	MOI	RAT	IONA]	Œ:	(If	apı	pli	.cab]			EQUAT		X	]		
REMARKS: IOA AGREES WITH THE FMEA/CIL. THE DISCREPANCY BETWEEN NASA FMEA/CIL AND IOA ANALYSES ARE MARKED AS AN ISSUE UNTIL RESOLVED WITH THE SUBSYSTEM MANAGER.																	

ASSESSMI ASSESSMI NASA FMI	ent Ent Ea #	DATE ID:	2/1 MEC 05-	.9/88 CH/VDM 6AB-2	I-8107 2029-2	7 <b>C</b>		ASA DAT BASELIN NE		]		
SUBSYSTE MDAC ID: ITEM:	EM:		810			POSITION	INDICA	TOR, AC	TUATO	R		
LEAD ANA	LYS	T:	H.J	. LOW	ERY							
ASSESSME	NT:											
	CRI	TICAI FLIGH	ITY T		REDUN	DANCY S	CREENS		CIL ITE			
	H	DW/FU	NC		A	В	С		1151	.1		
NASA IOA	[ [	2 /1R 2 /1R	: ] : ]	]	P ] P ]	[ P ] [ NA]	[ P	]	[ X ]	] *		
COMPARE	[	/	]	[	]	[и]	ξ	]	[	]		
RECOMMEN	DAT:	IONS:	(:	If di	ffere	nt from	NASA)					
	[	/	]	[	]	[ ]	(		[ ADD/DE			
* CIL RE	ren:	TION	RATIO	NALE:	(If	applica						
REMARKS:							AD INAD	EQUATE EQUATE	[ X	] ]		
REMARKS:  IOA AGREES WITH THE FMEA/CIL.  THE DISCREPANCY BETWEEN NASA FMEA/CIL AND IOA ANALYSES ARE MARKED AS AN ISSUE UNTIL RESOLVED WITH THE SUBSYSTEM MANAGER.												

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/VDM-8	3108C 29-2		NASA DATA: BASELINE NEW	[ x ]	
MDAC TD.	MECH/VDM 8108 MICROSWITC	CH POSIT	ION INDI	CATOR, ACTU	JATOR	
LEAD ANALYST:	H.J. LOWER	RY				
ASSESSMENT:						
CRITICAL FLIGH	ITY RI	EDUNDANC	Y SCREEN	IS	CIL ITEM	
HDW/FU			В	С		
NASA [ 2 /1R IOA [ 2 /1R	[ P	] [	P ] [ NA] [	P ] P ]	[ X ] *	
COMPARE [ /	] [	] [	и ]	[ ]	[ ]	
RECOMMENDATIONS:	(If dif	ferent f	rom NAS	A)		
ι /	] [	] [	1	[ ] (A)	[ ] DD/DELETE	E)
* CIL RETENTION	RATIONALE:	(If app	olicable	) ADEQUATE INADEQUATE	[ X ] [ ]	
REMARKS: IOA AGREES WITH THE DISCREPANCY AS AN ISSUE UNTI	BETWEEN NA	SA FMEA/	CIL AND IE SUBSY	IOA ANALYS STEM MANAGE	ES ARE MA	ARKED

ASSESSMI ASSESSMI NASA FMI	ENT	I	D:	M	/19/88 NASA DATA: ECH/VDM-8502C BASELINE 5-6AB-2029-2 NEW							х	]					
SUBSYSTI MDAC ID: ITEM:	EM:			8	ECH/ 502 CTUA					MOI	OULI	E						
LEAD ANA	LYS	ST	:	M.	BR.	BRADWAY												
ASSESSMENT:																		
FLIGHT								CIL ITEM										
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NASA IOA	]	2	/1R /1R	]		[	P P	]	[ [	P NA	]	[ ]	P ] P ]		[	X X	]	*
COMPARE	[		/	]		[		]		N	]	[	]		[		]	
RECOMMEN	DAT	'IC	ons:		(If	di	iff	ere	nt i	fro	m N	ASA)						
	[		/	]		[		]	[		]	[	]	(AI	[ /QC	'DE	] ELE	ETE)
* CIL RE	TEN	TI	ON F	TAS	IONA	LE	:	(If	app	li	cab	le)						
REMARKS:													DEQUA			X	]	
IOA AGREES WITH THE FMEA/CIL. THE DISCREPANCY BETWEEN NASA FMEA/CIL AND IOA ANALYSES ARE MARKED AS AN ISSUE UNTIL RESOLVED WITH THE SUBSYSTEM MANAGER.																		

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/VDM-8	107E 0A-2	NASA DATA: BASELINE [ ] NEW [ X ]				
SUBSYSTEM: MDAC ID: ITEM:	8107	H POSIT	ICATOR, ACTU	JATOR			
LEAD ANALYST:	H.J. LOWER	RY					
ASSESSMENT:							
CRITICAL		DUNDANC	Y SCREE	NS	CIL ITEM		
FLIGH HDW/FU	NC A		В	С	11111		
NASA [ 2 /1R IOA [ 2 /1R	] [ P	] [	P ] NA]	[ P ] [ P ]	[ X ] *		
COMPARE [ /	] [	] [	и ј	[ ]	[ ]		
RECOMMENDATIONS:	(If diff	ferent f	from NAS	A)			
[ /	] [	] [	1	[ ] (A)	[ ] DD/DELETE)		
* CIL RETENTION	RATIONALE:	(If app		) ADEQUATE INADEQUATE			
REMARKS: IOA AGREES WITH THE DISCREPANCY AS AN ISSUE UNTI	BETWEEN NAS	SA FMEA	CIL AND	IOA ANALYS	ES ARE MARKED		

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/19/88 MECH/VDM-8 05-6AB-203	3108E 30A-2	NASA DATA: BASELINE [ ] NEW [ X ]				
MDAC ID:	MECH/VDM 8108 MICROSWITC	H POSITION INDI	CATOR, ACTU	ATOR			
LEAD ANALYST:	H.J. LOWER	<b>Y</b>					
ASSESSMENT:							
CRITICALI FLIGHT	TTY RE	DUNDANCY SCREEN		CIL ITEM			
HDW/FUN		В	С	TIEM			
NASA [ 2 /1R IOA [ 2 /1R	] [ P ] [ P	] [P] [ ] [NA] [	P ] P ]	[ X ] * [ X ]			
COMPARE [ /	] [	] [и] [	1	[ ]			
RECOMMENDATIONS:	(If diffe	erent from NASA	)				
[ /	] [	] [ ] [		[ ] D/DELETE)			
* CIL RETENTION R	RATIONALE:	•	ADEQUATE NADEQUATE	[ x ]			
REMARKS: IOA AGREES WITH T THE DISCREPANCY B	HE FMEA/CI	L.	-	. ,			
THE DISCREPANCY B AS AN ISSUE UNTIL	RESOLVED V	WITH THE SUBSYS	TOA ANALYSE: TEM MANAGER	S ARE MARKED			

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/VDM-8502E	ECH/VDM-8502E BASELINE							
SUBSYSTEM: MDAC ID: ITEM:	MECH/VDM/EPD&C 8502 ACTUATOR SWITCH N	502 CTUATOR SWITCH MODULE							
LEAD ANALYST:	M. BRADWAY	. BRADWAY							
ASSESSMENT:									
CRITICAL		CY SCREENS	CIL ITEM						
FLIGH HDW/FU		ВС							
NASA [ 2 /1R IOA [ 2 /1R	[ P ] [ ] [ P ] [	P ] [ P ] NA] [ P ]	[ X ] * [ X ]						
COMPARE [ /	] [ ] [	и] []	[ ]						
RECOMMENDATIONS:	(If different	from NASA)							
1 /	] [ ] [	] [ ] (AI	[ ] DD/DELETE)						
* CIL RETENTION	RATIONALE: (If ap	oplicable) ADEQUATE INADEQUATE	[ x ]						
REMARKS: IOA AGREES WITH THE DISCREPANCY AS AN ISSUE UNT	RETWEEN NASA FMEA	A/CIL AND IOA ANALYS THE SUBSYSTEM MANAGE	ES ARE MARKED						

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/19/88 MECH/VDM-81 05-6AB-2031	07 <b>A</b>	NASA DATA: BASELINE [ ] NEW [ X ]						
MDAC ID:	MECH/VDM 8107 MICROSWITCH	POSITION IN	DICATOR, ACT	TUATOR					
LEAD ANALYST:	H.J. LOWERY								
ASSESSMENT:									
t migu		UNDANCY SCRE	ENS	CIL ITEM					
HDW/FU	NC A	В	С						
NASA [ 2 /1R IOA [ 2 /1R	] [ P ]	[ P ] [ NA]	[ P ] [ P ]	[ X ] * [ X ]					
COMPARE [ /	] [ ]	[ N ]	[ ]	[ ]					
RECOMMENDATIONS:	(If differ	cent from NA	SA)						
[ /	] [ ]	[ ]		[ DD/DELETE)					
* CIL RETENTION F	RATIONALE: ()	f applicable							
			ADEQUATE INADEQUATE	[ X ]					
REMARKS: IOA AGREES WITH THE DISCREPANCY E	ETWEEN NASA	FMEA/CTT, AND	n toa anatve	ec ane wanten					
AS AN ISSUE UNTIL	RESOLVED WI	TH THE SUBSY	VSTEM MANAGE						

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/19/88 MECH/VDM-8 05-6AB-203	108 1A	NASA DATA: BASELINE [ ] NEW [ X ]					
SUBSYSTEM: MDAC ID: ITEM:	8108	08 CROSWITCH POSITION INDICATOR, ACTUA						
LEAD ANALYST:	H.J. LOWER	.J. LOWERY						
ASSESSMENT:								
		DUNDANCY SCI	REENS	CIL ITEM				
FLIGH HDW/FU	NC A	В	С	IILM				
NASA [ 2 /1R IOA [ 2 /1R	] [ P [ P	] [P] ] [NA]	[ P ] [ P ]	[ X ] *				
COMPARE [ /	] [	] [N]	[ ]	[ ]				
RECOMMENDATIONS:	(If diff	erent from l	NASA)					
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* CIL RETENTION	RATIONALE:	(If applical	ole) ADEQUATE INADEQUATE	[ X ] [ ]				
REMARKS: IOA AGREES WITH THE FMEA/CIL. THE DISCREPANCY BETWEEN NASA FMEA/CIL AND IOA ANALYSES ARE MARKED AS AN ISSUE UNTIL RESOLVED WITH THE SUBSYSTEM MANAGER.								

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/19/88 MECH/VDM- 05-6AB-20	8502 31A	NASA DATA BASELINE NEW			
SUBSYSTEM: MDAC ID: ITEM:		EPD&C				
LEAD ANALYST:	M. BRADWA	Y				
ASSESSMENT:						
FLIGHT		EDUNDANC	CY SCREE	ns	CIL ITEM	
HDW/FU	IC A		В	С		
NASA [ 2 /1R IOA [ 2 /1R	] [ P ] [ P	] [	P ] NA]	[ P ] [ P ]	[ X ] * [ X ]	
COMPARE [ /	] [	] [	<b>N</b> ]	[ ]	[ ]	
RECOMMENDATIONS:	(If dif	ferent f	rom NAS	A)		
[ /	] [	] [	1	[ ] [A]	[ ] DD/DELETE)	
* CIL RETENTION F REMARKS:				) ADEQUATE INADEQUATE	[ x ] [ ]	
IOA AGREES WITH THE DISCREPANCY EAS AN ISSUE UNTIL	ETWEEN NAS	SA FMEA/	CIL AND	IOA ANALYSI	ES ARE MARKED	

ASSESSMENT DATE ASSESSMENT ID: NASA FMEA #:	MECH/VI	DM-8503	NASA DATA: BASELINE [ ] NEW [ X ]					
SUBSYSTEM: MDAC ID: ITEM:	MECH/VI 8503 MCA AC	DM/EPD&C						
LEAD ANALYST:	M. BRA	DWAY						
ASSESSMENT:								
CRITICA FLIC		REDUNI	DANCY SCRE	ENS	CIL ITEM			
	UNC	A	В	С				
NASA [ 2 /1 IOA [ 2 /1	R ] R ]	[ P ] [ P ]	[ P ] [ NA]	[ P ] [ P ]	[ X ] * [ X ]			
COMPARE [ /	3	[ ]	[ N ]	[ ]	[ ]			
RECOMMENDATION	: (If	differe	nt from NA	ASA)				
[ /	]	[ ]	[ ]	[ ]	[ ] ADD/DELETE)			
* CIL RETENTIO	N RATIONA	LE: (If	applicabl	le) ADEQUATE INADEQUATE	[ X ]			
REMARKS: IOA AGREES WIT THE DISCREPANC	BETWEEN	I NASA F	MEA/CIL AI H THE SUBS	ND IOA ANALYS	SES ARE MARKED			

	ASSESSMENT DATE: 2/19/88 ASSESSMENT ID: MECH/VDM-8503B NASA FMEA #: 05-6AB-2128-1							NASA DATA: BASELINE [ ] NEW [ X ]							
	SUBSYSTI MDAC ID: ITEM:	EM:		MECH/ 8503 MCA A				AY							
	LEAD ANA	ALYS	T:	M. BR	ADW/	AY									
	ASSESSME	ENT:													
			FLIGH'	_	I	REDUNI	AN	CY S	SCREI	ens			IL TEI		
		H	DW/FU	NC	7	A		В		С		_			
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	COMPARE	[	/	]	[	]	[	N ]	)	[	]	[		]	
	RECOMMEN	DAT	IONS:	(If	dif	feren	it :	fron	n NAS	A)					
		[	/	]	[	]	[	]		(			/DE		ETE)
	* CIL RE	TENT	rion i	RATIONA	LE:	(If	app	olic	able						
	REMARKS:									Al INAI	DEQUATE DEQUATE	]	X	]	
1	IOA AGRE THE DISC AS AN IS	REPA	ANCY E	BETWEEN	NA	SA FM	EA/ TF	'CIL	AND	IO!	ANALYS	ES	AR	Œ	MARKED
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/19/88 MECH/VDM-8 05-6AB-212	503C 9 <b>-</b> 2		NASA DATA: BASELINE NEW	[ x ]				
SUBSYSTEM: MDAC ID: ITEM:	8503	A AC POWER RELAY							
LEAD ANALYST:									
ASSESSMENT:									
CRITICAL		CY SCREEN	CIL ITEM						
FLIGH HDW/FU			В	С					
NASA [ 2 /1R IOA [ 2 /1R	] [ P ]	] [	P ] NA]	[ P ] [ P ]	[ X ] *				
COMPARE [ /	] [	] [	n ]	[ ]	[ ]				
RECOMMENDATIONS:	(If dif	ferent	from NAS	A)					
[ /	] [	] [	]	[ ] (A	[ ] DD/DELETE)				
* CIL RETENTION	RATIONALE:	(If ap		) ADEQUATE INADEQUATE					

REMARKS:

IOA AGREES WITH THE FMEA/CIL.

THE DISCREPANCY BETWEEN NASA FMEA/CIL AND IOA ANALYSES ARE MARKED AS AN ISSUE UNTIL RESOLVED WITH THE SUBSYSTEM MANAGER.

ASSESSM ASSESSM NASA FM	ENT	ID:	MECI	I/VDM	-850 130-	3D 1	NASA DATA: BASELINE [ ] NEW [ X ]					
SUBSYST MDAC ID ITEM:	EM:		MECE 8503 MCA	I/VDM, B AC PO								
LEAD AN	ALYS	r:	м. в	. BRADWAY								
ASSESSMI	ENT:											
	I	FLIGH		_	REDUI	NDANCY SCR	EENS	CIL ITEM				
	HI	OW/FU	NC	A		В	C	TIEM				
NASA IOA	[ 2 [ 2	/1R	]	[ P	) ]	[ P ] [ NA]	[ P ] [ P ]	[ X ] * [ X ]				
COMPARE	[	/	3	ι	]	[ N ]	[ ]	[ ]				
RECOMMEN	DATI	ons:	(I	f dif	fere	ent from N	ASA)					
	[	/	]	[	]	[ ]	[ ]	[ ] (ADD/DELETE)				
* CIL RE	TENT	ION I	RATIO	VALE:	(If	applicabl	.e)	·				
REMARKS:							ADEQUAT	E [ X ] E [ ]				
IOA AGRE THE DISC AS AN IS	REPAI	NCY F	RTWEE	N NAC	מ גיב	MEA/CIL AN H THE SUBS	D IOA ANAL YSTEM MANAC	YSES ARE MARKED				

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/19/88 MECH/VDM-8 05-6AB-213	503E 0-2			SA DATA: ASELINE NEW	[ x	]	
SUBSYSTEM: MDAC ID: ITEM:	MECH/VDM/E 8503 MCA AC POW		.Y					
LEAD ANALYST:	M. BRADWAY	•						
ASSESSMENT:								
CRITICAL: FLIGH	ITY RE	DUNDANC	Y SCREE	NS		CIL		
HDW/FU			В	С				
NASA [ 2 /1R IOA [ 2 /1R	] [ P ] [ P	] [	P ] NA]	[ P ]	] ]	[ X	]	*
COMPARE [ /	] [	] [	N ]	[	]	[	]	
RECOMMENDATIONS:	(If diff	erent f	from NAS	A)				
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* CIL RETENTION	RATIONALE:	(If app	olicable	AD:	EQUATE EQUATE	( X	]	
REMARKS: IOA AGREES WITH THE DISCREPANCY AS AN ISSUE UNTI	BETWEEN NAS	SA FMEA	/CIL AND HE SUBSY	) IOA	ANALYSI	ES A		MARKED

ASSESSMENT DATASSESSMENT ID:	MECH/VI	8 DM-8503J -2133-2		NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	8503	OM/EPD&C POWER REL	ΑY		
LEAD ANALYST:	M. BRAI	YAW			
ASSESSMENT:					
FLI	ALITY GHT	REDUNDAN	CY SCREE	ens	CIL ITEM
HDW/	FUNC	A	В	С	
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REMARKS: IOA AGREES WIT THE DISCREPANC	BETWEEN	NASA FMEA	CIL AND	TOA ANALYS	FS ADE MADVER
AS AN ISSUE UN	TIL RESOLV	ED WITH TH	E SUBSY	STEM MANAGE	R.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/VDM-8503F	NASA DATA: BASELINE NEW	[ x ]
SUBSYSTEM: MDAC ID: ITEM:	MECH/VDM/EPD&C 8503 MCA AC POWER RELA	.Y	
LEAD ANALYST:	M. BRADWAY		
ASSESSMENT:			
CRITICAL	<b></b> -	'I DCKHDI'O	CIL ITEM
FLIGH HDW/FU		В С	
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REMARKS: IOA AGREES WITH THE DISCREPANCY AS AN ISSUE UNT	DEPUTERN NASA FMEA	/CIL AND IOA ANALYSI HE SUBSYSTEM MANAGEI	ES ARE MARKED R.

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LEAD AN	ALY	ST	:	M.	BR	ΑD	WA	Y														
ASSESSMI	ENT	:																				
		F	ICAL LIGH W/FU	r			R:		NDA	N	CY B	SC	REE	NS	s c				IL PE			
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SUBSYSTEM MDAC ID:			850	3		EPD& WER		ΔY								
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ASSESSMEN	T:															
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		W/FU			A			В			С					
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RECOMMEN	DATI	ons:	(	(If	dif	fere	ent :	fro	om N	NASA)	)					
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/19/88 MECH/VDM-8: 05-6AB-213:	503I 9-2	NASA DATA: BASELINE NEW	
	MECH/VDM/E 8503 MCA AC POW			
LEAD ANALYST:	M. BRADWAY			
ASSESSMENT:				
CRITICALI FLIGHT		DUNDANCY SCREE	NS	CIL ITEM
HDW/FU	IC A	В	С	IIEM
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REMARKS: IOA AGREES WITH THE DISCREDANCY B	HE FMEA/CII	L.		
THE DISCREPANCY BAS AN ISSUE UNTIL	RESOLVED W	NITH THE SUBSYS	TOA ANALYSE STEM MANAGER	S ARE MARKED

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/19/88 MECH/VDM-85 05-6AB-2177	03A '-1	NASA DATA: BASELINE NEW	[ x ]
SUBSYSTEM: MDAC ID: ITEM:	MECH/VDM/EF 8503 MCA AC POWE			
LEAD ANALYST:	M. BRADWAY			
ASSESSMENT:				
CRITICAL		DUNDANCY SCREEN	<b>NS</b>	CIL ITEM
FLIGH HDW/FU		В	С	
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		F	LIGH	T	Y		R	EDUI	NAAN	CY	sc	REE	IS			CI			
	1	HDI	W/FU	NC			A			В			С						
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REMARKS: IOA AGRE	ES	WI	TH 1	THE	FMF	! <b>A</b> /	CT	т.					NAL	EQUAT EQUAT	Έ	[	]		
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/VDM-8	512A		NASA DATA: BASELINE NEW	
	MECH/VDM/E 8512 MODULATOR/		ATOR		
LEAD ANALYST:	M. BRADWAY	•			
ASSESSMENT:					
CRITICAL		DUNDANC	Y SCREE	ns	CIL ITEM
FLIGH HDW/FU	NC A		В	С	
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LEAD ANA	<b>\LYS</b>	T:	M	. BRA	DW	AY									
ASSESSME	ent:														
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SUBSYSTEM MDAC ID: ITEM:			851	CH/VD L7 C SOF			2											
LEAD ANAL	YST	:	M.	BRAD	WAY	?			٠									
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SUBSYSTEM: MDAC ID: ITEM:	8511		LATOR (2)		
LEAD ANALYST:	M. BRADV	VAY .			
ASSESSMENT:					
CRITICAL FLIGH	T	REDUNDANG	CY SCREENS		CIL ITEM
HDW/FU	NC	A	В	С	1154
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SUBSYSTE MDAC ID:			851	L2		EPD&	C ODUL	ATC.	OR									
LEAD ANA	LYST	:	M.	BRA	DWA	Y												
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SUBSYSTEM: MDAC ID: ITEM:	MECH/VI 8513 GPC SO				
LEAD ANALYST:	M. BRA	DWAY			
ASSESSMENT:					
CRITI FL	CALITY IGHT	REDUNDAN	CY SCREENS		CIL
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3SYSTEM: AC ID: EM:		MECH/V 8517 GPC SC										
AD ANALYST	:	M. BRA	DWAY	?								
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AN ISSUE UNTIL RESOLVED WITH THE SUBSYSTEM MANAGER.

ASSESSMENT DATE: 2/19/88 ASSESSMENT ID: MECH/VDM-8511B NASA FMEA #: 05-6AB-2204-2 SUBSYSTEM: MECH/VDM/EPD&C																	DATA LINE NEW	] :	X	]		
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ASSESSM	ASSESSMENT DATE: 2/19/88 ASSESSMENT ID: MECH/VDM-8513B NASA FMEA #: 05-6AB-2204-2 SUBSYSTEM: MECH/VDM/EPD&C															ASA I BASEI		[			
SUBSYSTIMDAC ID	EM: :			8	ECH/ 513 PC S																
LEAD AND	ALY	ST	:	M	. BR	ΑD	WA	Y													
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REMARKS:															AD AD	EQUAT	re re	[ }	(	] ]	
IOA AGRE	REP.	AN	CY P	FT	WEEN	N	A C	A E	MEA,	/ H	CII E S	L i	AND BSY:	I ST	OA EM	ANAI MANA	LYSE AGER	S A	ıRi	E ]	MARKED

ASSESSMENT DATE ASSESSMENT ID: NASA FMEA #:	MECH/ VDI	1-021/0		NASA DATA: BASELINE NEW	
	MECH/VDM 8517 GPC SOF				
LEAD ANALYST:	M. BRADI	NAY			
ASSESSMENT:					
CRITICA		REDUNDANC	Y SCREEN	S	CIL ITEM
FLIG HDW/F		A	В	С	
NASA [ 2 /1 IOA [ 2 /1	R ] [	P ] [ P ] [	F ] [ NA] [	P ] P ]	[ X ] *
COMPARE [ /	] [	] [	N ] [	1	[ ]
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REMARKS: IOA AGREES WIT THE DISCREPANC AS AN ISSUE UN		ATACA L'MB'A	/CIL AND HE SUBSYS	IOA ANALYS STEM MANAGI	SES ARE MARKED ER.

ASSESSMENT DATE: 2/19/88 ASSESSMENT ID: MECH/VDM-8507 NASA FMEA #: 05-6AB-2252-1 SUBSYSTEM: MECH/VDM/EPD&C												1		DATA LINE NEW	[		!	
SUBSYST: MDAC ID ITEM:	EM:			8	ECH/ 507 CAD			EPD&	C									
LEAD AND	ALY	ST	:	M	. BR	AD'	WA'	Y										
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REMARKS:												I		DEQU <i>I</i> DEQU <i>I</i>	ATE ATE	[ X [	]	
THE DISC AS AN IS	REP	AN	CY F	BET	WEEN	N	AS	A FM	EA/	CI E	L A SUE	and Bsys	IO TEI	A ANA M MAN	LYSE IAGER	S A	RE	MARKED

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/19/88 MECH/VDM-8 05-6AB-225	508 52-1		NASA DATA BASELINE NEW	
	MECH/VDM/E 8508 MCA DIODE	PD&C			
LEAD ANALYST:	M. BRADWAY	!			
ASSESSMENT:					
CRITICAL: FLIGHT	CIL ITEM				
HDW/FU			В	С	<b>2.22.</b>
NASA [ 2 /1R IOA [ 2 /1R	] [ P ] [ P	] [	P ] NA]	[ P ] [ P ]	[ X ] *
COMPARE [ /	] [	] [	N ]	[ ]	[ ]
RECOMMENDATIONS:	(If diff	erent i	from NAS	A)	
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* CIL RETENTION	RATIONALE:	(If app	plicable	ADEQUATE	[ X ]
REMARKS: IOA AGREES WITH THE DISCREPANCY AS AN ISSUE UNTI	BETWEEN NAS	SA FMEA	/CIL AND HE SUBSY	IOA ANALYS	ES ARE MARKED

ASSESSME	ASSESSMENT DATE: 2/17/88 ASSESSMENT ID: MECH/PBD-5502 NASA FMEA #: 05-6EB-2000-1 SUBSYSTEM: MECH/PBD/EPD& MDAC ID: 5502												NASA BASE	LINE			
SUBSYSTE MDAC ID:	EM:			55	02					R	ESIS	TOR					
LEAD ANA	LY	ST	:	J.	BAG	CHI	ER										
ASSESSME	NT	:															
	CR		ICAL: LIGH'				RI	EDUN	DAN	CY	SCR	EENS			CIL		
	:		W/FUI				A			В			С		ITE	M	
NASA IOA	[	3 2	/1R /1R	]		[	P P	]	]	F F	]	[	P ] P ]		[ X	]	*
COMPARE	[	N	/	)		[		]	[		]	C	]		[	]	
RECOMMEN	DA'	TI	ONS:	į	(If	đi	ff	ere	nt i	fro	om N	ASA)					
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DEMA DES												IN	ADEQU. ADEQU.	ATE	[ X	]	
REMARKS: IOA AGRE THE DISC AS AN IS	RE:	PAI	NCY I	BETV	VEEN	IN	IAS	A FI	MEA/	/C]	L A	ND I	OA AN.	ALYSI Nacey	ES A	RE	MARKED
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ASSESSMENT DA ASSESSMENT ID NASA FMEA #:	: MECH	/PBD-5504		NASA DA BASELI	ATA: INE [ ] NEW [ X ]
SUBSYSTEM: MDAC ID: ITEM:	5504	/PBD/EPD&C OAD BAY DO		ROL SWITCH	
LEAD ANALYST:	J. B	ACHER			
ASSESSMENT:					
		REDUND	ANCY SCRI	EENS	CIL ITEM
	LIGHT N/FUNC	A	В	С	
NASA [ 3 IOA [ 2	/1R ] /1R ]	[ P ] [ P ]	[ F ] [ P ]	[ P ] [ P ]	[ X ] * [ X ]
COMPARE [ N	/ 1	[ ]	[ N ]	[ ]	[ ]
RECOMMENDATIO	ons: (1	f differer	nt from N	ASA)	
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REMARKS: IOA AGREES W THE DISCREPA AS AN ISSUE	MAN DEMMI	PEN NASA FI	MEA/CIL A H THE SUE	ND IOA AN	ALYSES ARE MARKED

	2/17/88 MECH/PBD-5504A 05-6EB-2001-2	N.	ASA DATA: BASELINE [ NEW [ }	]
SUBSYSTEM: MDAC ID: ITEM:	MECH/PBD/EPD&C 5504 PAYLOAD BAY DOORS	S CONTROL S	VITCH	
LEAD ANALYST:	J. BACHER			
ASSESSMENT:				
CRITICALI FLIGHT	TY REDUNDANC	Y SCREENS	CIL	
HDW/FUN		В С	ITE	M
NASA [ 3 /1R IOA [ 2 /1R	] [P] [ ] [P]	F ] [ P P ]	] [ x ]	] <b>*</b>
COMPARE [ N /	) [ ] [:	и] [	] (	]
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* CIL RETENTION R	ATIONALE: (If app			
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ASSESSMENT DATE: 2/17/88 ASSESSMENT ID: MECH/PBD-5507 NASA FMEA #: 05-6EB-2004-1 SUBSYSTEM: MECH/PBD/EPD&C								P		DATA ELINE NEW	[	x	]				
SUBSYSTEM MDAC ID:			550	7		EPD&											
LEAD ANA	LYST	:	J.	BAC	HER												
ASSESSME	NT:																
	CRIT	ICAL LIGH			R	EDUN	DANC	Y	SCR	EENS			C	IL CEM	[		
	_	W/FU			A			В		(	C				•		
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COMPARE	[	/	]		[	]	[	N	]	[	]		[		]		
RECOMMEN	DATI	ons:		(If	dif	fere	nt f	rc	om N	ASA)							
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REMARKS:	REPA	NCY	BET	WEEN	I NA	SA F	MEA/	C)	LL A	ND I	OA A	ANALYS MANAGE	SES	AF	₹E	MARK	ŒD

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/PBD-	NASA DATA: BASELINE [ ] NEW [ X ]										
SUBSYSTEM: MDAC ID: ITEM:	MECH/PBD/ 5507 MAIN DC B											
LEAD ANALYST:	J. BACHER											
ASSESSMENT:												
CRITICAL: FLIGHT	CIL											
HDW/FU			В	С	ITEM							
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COMPARE [ N /	] [	] [	]	[ ]	[ ]							
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REMARKS:	ADEQUATE [ X ] INADEQUATE [ ]											
IOA AGREES WITH T	CEMARKS:  TOA AGREES WITH THE FMEA/CIL.  THE DISCREPANCY BETWEEN NASA FMEA/CIL AND IOA ANALYSES ARE MARKED.											
AS AN ISSUE UNTIL	RESOLVED	WITH THI	E SUBSYS	TOM ANALYSI STEM MANAGEI	S. AKE MARKED							

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/PBD-5508	NASA DATA: BASELINE [ NEW [										
	MECH/PBD/EPD&C 5508 MAIN DC BUS REL	AY										
LEAD ANALYST:	J. BACHER											
ASSESSMENT:												
CRITICAL	CIL ITEM											
FLIGH HDW/FU		в с	<b></b>									
NASA [ 3 /1R IOA [ 3 /3	] [ P ] ] [ ]	[F] [P]	[ X ] * [ X ]									
COMPARE [ /N	] [N]	[ N ] [ N ]	[ ]									
RECOMMENDATIONS:	(If different	from NASA)										
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REMARKS: IOA AGREES WITH THE FMEA/CIL. THE DISCREPANCY BETWEEN NASA FMEA/CIL AND IOA ANALYSES ARE MARKED AS AN ISSUE UNTIL RESOLVED WITH THE SUBSYSTEM MANAGER.												

ASSESSMENT DATE: 2/17/88 ASSESSMENT ID: MECH/PBD-5507B NASA FMEA #: 05-6EB-2005-1								NASA DATA: BASELINE [ ] NEW [ X ]									
SUBSYSTI MDAC ID: ITEM:				5507			D&C RELA	Υ									
LEAD ANA	ALY:	ST:	i	<b>у.</b> в	ACHE	R											
ASSESSMI	ENT	:															
	CR	ITIC.		Ϋ́		RED	UNDAN	CY	SCR	EENS	<b>;</b>			ΙL			
	FLIGHT HDW/FUNC					A		В			С		ITEM				
NASA IOA	]	2 /:	1R ] 1R ]		[	P ] P ]	[	P F	]	[	P ] P ]		[	X X	]	*	
COMPARE	[	/	]		[	]	E	N	]	[	]		[		]		
RECOMMEN	ľACI	ONS	S:	(Ii	f di:	ffe	rent	fro	om N	ASA)							
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REMARKS:

ASSESSMENT ASSESSMENT NASA FMEA	r I	D	:	MEC	ECH/PBD-5508A 5-6EB-2005-1										A DAT SELII NI		[	x	]	
SUBSYSTEM MDAC ID:	:			550	H/PE 8 N DC					Y										
LEAD ANAL	YSI	r:		J.	BACH	ER														
ASSESSMEN	T:																			
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	пі	UW	/FUN	••			_		_			_						v	1	•
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COMPARE	[ ]	N	/N	]		1	1 ]		[	N	Ī	]	[	N	)		[		]	
RECOMMEND	AT:	IC	NS:	(	(If o	lii	ff€	erer	nt	fr	<b>.</b> O	m NAS	A)	)						
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**REMARKS:** 

ASSESSMENT DATE: 2/17/88 ASSESSMENT ID: MECH/PBD-5507C NASA FMEA #: 05-6EB-2005-2 SUBSYSTEM: MECH/PBD/EPD&C								NASA DATA: BASELINE [ ] NEW [ X ]										
SUBSYSTI MDAC ID: ITEM:	EM:			55	507				&C RELA	Y								
LEAD ANA	ALY	ST	:	J.	BA	CH	ER											
ASSESSME	ASSESSMENT:																	
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COMPARE	[		/	)		[		]	[	N	]	[		]		[	)	
RECOMMEN	DAI	CIC	ns:		(If	di	fí	fer	ent :	fro	m	NASA)						
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REMARKS:																		
THE DISC	DA AGREES WITH THE FMEA/CIL. HE DISCREPANCY BETWEEN NASA FMEA/CIL AND IOA ANALYSES ARE MARKED HE AN ISSUE UNTIL RESOLVED WITH THE SUBSYSTEM MANAGER.																	

ASSESSMENT DATE ASSESSMENT ID: NASA FMEA #:	MECH/PB	D-5508B			ASELINE [ NEW [	
SUBSYSTEM: MDAC ID: ITEM:	MECH/PB 5508 MAIN DC	D/EPD&C BUS REI	<b>L</b> AY			
LEAD ANALYST:	J. BACH	ER				
ASSESSMENT:						
	LITY	REDUNDA	ANCY SO	CREENS		CIL [TEM
FLIC HDW/I		A	В	С		
NASA [ 2 /1 IOA [ 3 /3	R ] [	P ]	[ P ]	[ P	]	[ X ] * [ X ]
COMPARE [ N /	r ) (	и ]	[ N ]	[ N	]	[ ]
RECOMMENDATIONS	: (If d	lifferen	t from	NASA)		
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* CIL RETENTION	RATIONAL	LE: (If	applic	able) AI INAI	EQUATE EQUATE	[ X ] [ ]
REMARKS: IOA AGREES WITHED ISCREPANCES AND ISSUE UNITED INC.	BETWEEN	NASA FM	EA/CIL THE S	AND IO	ANALYSE	s are marked

ASSESSME ASSESSME NASA FME	TK	I	D:		M	ECH/	PB	D-	55 10	04B -1								DA ELI N		[		]		
SUBSYSTE MDAC ID:	M:				5	504					)R	S (	COI	NTRO	L	SW	/IT	СН						
LEAD ANA	LYS	ST	:		J.	. BA	CH	ER																
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	ŀ	IDI	W/F	U	1C			A				В				C				_				
NASA IOA	[	2 2	/1 /1	R R	]		[	P P	]		[	P P	]		]	P P	]			]	X X	]	*	
COMPARE	[		/		]		[		]		[		]		[		]			[		)		
RECOMMEN	<b>LA</b> G	CIC	ONS	:		(If	đ:	if	fer	ent	: f	rc	m	NASZ	A)									
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PEMARKS.														]				JAT: JAT:			X	] ]		

REMARKS:

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/17/88 MECH/PBD-5 05-6EB-201	5504C LO-2	NASA DATA: BASELINE [ ] NEW [ X ]					
SUBSYSTEM: MDAC ID: ITEM:	MECH/PBD/F 5504 PAYLOAD BA	PD&C AY DOORS CONTRO	L SWITCH					
LEAD ANALYST:	J. BACHER							
ASSESSMENT:								
CRITICA FLIG	łT	EDUNDANCY SCREE		CIL ITEM				
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NASA [ 2 /1 IOA [ 2 /1	R ] [ P R ] [ P	] [ P ] ] [ P ]	[ P ] [ P ]	[ X ] *				
COMPARE [ /	] [	] [ ]	[ ]	[ ]				
RECOMMENDATIONS	: (If dif	ferent from NAS	A)					
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* CIL RETENTION	RATIONALE:	(If applicable	ADEQUATE	[ X ]				

REMARKS:

ASSESSMENT ASSESSMENT NASA FMEA #	ID: 1	2/17/88 MECH/PBD 05-6EB-2	)-5505 2011-1			N	ASA DATA BASELINI NEV		]
SUBSYSTEM: MDAC ID: ITEM:	į	MECH/PBD 5505 FUSE, 1A		С					
LEAD ANALYS	т: з	J. BACHE	R						
ASSESSMENT:									
	TICALII	ry	REDUN	DANCY	SCRE	ENS		CIL	
	FLIGHT DW/FUNC	2	A	В		С		ITE	M
NASA [ :	2 /1R ] 2 /1R ]	] [	P ] P ]	[ P	]	[ P	]	[ X [ X	] * ]
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RECOMMENDATI	cons:	(If di	ffere	nt fr	om NA	SA)			
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REMARKS:							EQUATE EQUATE	[ X	]

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/ETU-3	505 6-3	NASA DATA: BASELINE NEW								
SUBSYSTEM: MDAC ID: ITEM:	MECH/ETUD/ 3505 ET UMBILIC	EPD&C AL DOOR MODE S	WITCH								
LEAD ANALYST:	J. BACHER										
ASSESSMENT:											
CRITICAL	CIL ITEM										
FLIGH HDW/FU		В	С								
NASA [ 2 /1R IOA [ 3 /3	] [ P	] [ P ] ] [ ]	[ P ] [ ]	[ X ] *							
COMPARE [ N /N	] [ N	] [ N ]	[ N ]	[ N ]							
RECOMMENDATIONS:	(If diff	ferent from NAS	SA)								
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* CIL RETENTION	RATIONALE:	(If applicable	e) ADEQUATE INADEQUATE	[ X ]							
REMARKS: IOA AGREES WITH THE FMEA/CIL. THE DISCREPANCY BETWEEN NASA FMEA/CIL AND IOA ANALYSES ARE MARKED AS AN ISSUE UNTIL RESOLVED WITH THE SUBSYSTEM MANAGER.											

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/17/88 MECH/ETU- 05-6ED-20	MECH/ETU-3506 BASELII 05-6ED-2026-3 NI										
SUBSYSTEM: MDAC ID: ITEM:	3506	506 T UMBILICAL DOOR MODE SWITCH										
LEAD ANALYST:	J. BACHER	1										
ASSESSMENT:												
CRITICAL: FLIGHT	CIL ITEM											
HDW/FU	IC A	В	С	IIEM								
NASA [ 2 /1R IOA [ 3 /3	] [ P	[ P ] ] [ ]	[ P ] [ ]	[ X ] *								
COMPARE [ N /N	] [ N	] [ N ]	[и]	[ N ]								
RECOMMENDATIONS:	(If dif	ferent from NAS	A)									
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REMARKS:	ADEQUATE [ X ] INADEQUATE [ ]											
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ASSESSME ASSESSME NASA FME	ENT.	rI	D:		ME	CH/I	TT	J-3 202	505 6 <b>-</b> 4	A			BASELINE [ ] NEW [ X ]								
SUBSYSTE MDAC ID:		}			35	05		-			<b>?</b> 1	<b>1</b> ODE	e sw:	ITC	СН						
LEAD ANA	\L\	(ST	:		J.	BAG	CHI	ER													
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	CF		ICA LIG					RI	EDUN	DANG	CY	SCI	REEN	5				IL PEM	ſ		
		HD	W/F	UN	C			A			В			С							
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RECOMMEN	₹D₽	<b>ATI</b>	ons	S:		(If	d:	ifi	fere	nt :	fro	om 1	NASA	)							
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* CIL RI	ETI	ENT	IOI	1 F	TAS	ION	ALI	Ξ:	(If	apı	<b>)</b> 1:	ical		A I a ta	DEQU	ATE ATE	[	x	]		
REMARKS: IOA AGRI THE DISC AS AN IS	EES CRI	EPA	NC	Z	3ET	WEE	N I	A.	SA F	MEA,	/C:	IL /	AND :	IO2	A AN	ALYS	ES		•	MAR	KED
NO WIN TO	<b>5</b> 50	JE	OMI		ע נ	JUDU.	T A 1	لان	MIT	11 11	ناة	ال	I D			*******					

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/ET	U-3506A		NASA DATA BASELINE NEW							
SUBSYSTEM: MDAC ID: ITEM:	3506	506 T UMBILICAL DOOR MODE SWITCH									
LEAD ANALYST:	J. BACH	ER									
ASSESSMENT:											
CRITICAI FLIGH		REDUNDAN	ICY SCREEN	S	CIL ITEM						
	NC	A	В	С	TIEM						
NASA [ 2 /1F IOA [ 3 /3	] [	P ] [	[ <b>q</b> ]	P ]	[ X ] *						
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RECOMMENDATIONS:	(If d	ifferent	from NASA	)							
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REMARKS:			II	ADEQUATE ADEQUATE	[ ]						
IOA AGREES WITH THE DISCREPANCY AS AN ISSUE UNTI	BETWEEN I	NASA FMEA	/CIL AND THE SUBSYST	IOA ANALYSE TEM MANAGEF	S ARE MARKED						

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/ETU-350	7	NASA DATA: BASELINE NEW	[ ]						
SUBSYSTEM: MDAC ID: ITEM:	3507	ECH/ETUD/EPD&C 507 ENTELRINE LATCH-STOW SWITCH								
LEAD ANALYST:	J. BACHER	BACHER								
ASSESSMENT:										
CRITICAL	•	CIL ITEM								
FLIGH HDW/FU		В	С							
NASA [ 2 /1R IOA [ 2 /1R	] [ P ] ] [ P ]	[ P ] [ [ P ] [	P ] P ]	[ X ] *						
COMPARE [ /	] [ ]	[ ] [	1	[ ]						
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* CIL RETENTION	RATIONALE: (	If applicable)	ADEQUATE NADEQUATE	[ X ]						
REMARKS: IOA AGREES WITH THE FMEA/CIL. THE DISCREPANCY BETWEEN NASA FMEA/CIL AND IOA ANALYSES ARE MARKED AS AN ISSUE UNTIL RESOLVED WITH THE SUBSYSTEM MANAGER.										

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/17/88 MECH/ETU-3 05-6ED-202	3508 27 <b>-</b> 2	NASA DATA: BASELINE [ ] NEW [ X ]						
SUBSYSTEM: MDAC ID: ITEM:	3508	ECH/ETUD/EPD&C 508 ENTELRINE LATCH-STOW SWITCH							
LEAD ANALYST:	J. BACHER								
ASSESSMENT:									
CRITICAL FLIGH	ITY RE	DUNDANCY SCREEN	NS	CIL					
HDW/FU	_	В	С	ITEM					
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REMARKS:			ADEQUATE NADEQUATE	[ X ] [ ]					
IOA AGREES WITH THE DISCREPANCY E AS AN ISSUE UNTIL	ETWEEN NASA	FMEA/CTT. AND	IOA ANALYSE TEM MANAGER	S ARE MARKED					

ASSESSMENT DAT ASSESSMENT ID: NASA FMEA #:	: 2/17/88 MECH/ET 05-6ED-	ซ−3507A		NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/ET 3507 CENTELF		H-STOW SW	ттсн	
LEAD ANALYST:	J. BACH	IER			
ASSESSMENT:					
CRITIC FLI	HT		NCY SCREE	ens C	CIL ITEM
HDW/	FUNC	A	В	_	
NASA [ 2 / IOA [ 2 /	LR ]   LR ]	[ P ] [ P ]	[ P ] [ P ]	[ P ] [ P ]	[ X ] * [ X ]
COMPARE [ /	]	[ ]	[ ]	[ ]	[ ]
RECOMMENDATION	5: (If o	different	from NAS	SA)	
[ /	]	[ ]	[ ]	[ ]	[ ] DD/DELETE)
* CIL RETENTION	N RATIONA	LE: (If a	applicable	≥) ADEQUATE TNADEOUATE	_

REMARKS:

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: SUBSYSTEM: MDAC ID:	2/17/88 MECH/ETU-3 05-6ED-202 MECH/ETUD/ 3508		NASA DATA BASELINE NEW	
ITEM:	<del>-</del>	LATCH-STOW	SWITCH	
LEAD ANALYST:	J. BACHER			
ASSESSMENT:				
CRITICALI FLIGHT	?	DUNDANCY SCRI	EENS	CIL ITEM
HDW/FUN	IC A	В	С	
NASA [ 2 /1R IOA [ 3 /3	] [ P	] [ P ] ] [ ]	[ P ] [ ]	[ X ] *
COMPARE [ N /N	] [и	] [N]	[ N ]	[ ]
RECOMMENDATIONS:	(If diffe	erent from NA	SA)	
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* CIL RETENTION R REMARKS:	ATIONALE:	(If applicabl	e) ADEQUATE INADEQUATE	[ X ]

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	05-6ED-2	5-6ED-2028-3										
SUBSYSTEM: MDAC ID: ITEM:		r UMBILICAL DOOR OPEN-CLOSE SWITCH										
LEAD ANALYST:	EAD ANALYST: J. BACHER											
ASSESSMENT:  CRITICALITY REDUNDANCY SCREENS  CIL												
CRITICAL	YTI	REDUNDANC	Y SCREENS		ITEM							
FLIGH HDW/F		A	в с									
NASA [ 2 /1] IOA [ 2 /1]	R ] [	P ] [ P ] [	P ] [ P P ] [ P	) ) ]	[ X ] *							
COMPARE [ /	] [	] [	] [	1	[ ]							
RECOMMENDATIONS	: (If d	different :	from NASA)									
[ /		[ ]	] [	] (A	[ ] DD/DELETE)							
* CIL RETENTION	RATIONA:	LE: (If ap	plicable) IN	ADEQUATE ADEQUATE	[ x ]							
REMARKS: IOA AGREES WITH THE FMEA/CIL. THE DISCREPANCY BETWEEN NASA FMEA/CIL AND IOA ANALYSES ARE MARKED AS AN ISSUE UNTIL RESOLVED WITH THE SUBSYSTEM MANAGER.												

NASA FMEA #: SUBSYSTEM: MDAC ID: ITEM:	MECH/ETU-351 05-6ED-2028- MECH/ETUD/EP 3510 ET UMBILICAL	MECH/ETU-3510 BASELINE 05-6ED-2028-3 NEW MECH/ETUD/EPD&C 3510 ET UMBILICAL DOOR OPEN-CLOSE SWITCH								
LEAD ANALYST: J. BACHER										
ASSESSMENT:										
CRITICAL: FLIGHT		NDANCY SCREE	:NS	CIL						
HDW/FUI										
NASA [ 2 /1R IOA [ 3 /3	] [ P ] ] [ ]	[ P ] [ ]	[ P ] [ ]	[ X ] * [ X ]						
COMPARE [ N /N	] [ N ]	[ N ]	[ N ]	[ ]						
RECOMMENDATIONS:	(If differe	nt from NAS	A)							
	] [ ]		(AD	[ ] D/DELETE)						
* CIL RETENTION R	ATIONALE: (If	applicable)	3 D.D	f V 1						
ADEQUATE [ X ]  REMARKS: INADEQUATE [ ]  IOA AGREES WITH THE FMEA/CIL.  THE DISCREPANCY BETWEEN NASA FMEA/CIL AND IOA ANALYSES ARE MARKED  AS AN ISSUE UNTIL RESOLVED WITH THE SUBSYSTEM MANAGER.										
AN ISSUE UNTIL	RESOLVED WITH	H THE SUBSYS	TEM MANAGER.	, ARE MARKED						

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/ETU-350	/17/88 NASA DATA: ECH/ETU-3509A BASELINE [ ] 5-6ED-2030-3 NEW [ X ]							
SUBSYSTEM: MDAC ID: ITEM:	3509	MECH/ETUD/EPD&C 3509 ET UMBILICAL DOOR OPEN-CLOSE SWITCH							
LEAD ANALYST:	J. BACHER	. BACHER							
ASSESSMENT:									
CRITICAL FLIGH		UNDANCY SCREENS	<i>.</i> *	CIL ITEM					
HDW/FU		В	С						
NASA [ 2 /1R IOA [ 2 /1R	[ P ]	[ P ] [ [ P ] [	P ] P ]	[ X ] *					
COMPARE [ /	] [ ]	[ ] [	]	[ ]					
RECOMMENDATIONS:	(If diffe	rent from NASA	)						
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* CIL RETENTION	RATIONALE: (		ADEQUATE NADEQUATE	[ x ]					
REMARKS: IOA AGREES WITH THE DISCREPANCY AS AN ISSUE UNTI	RETWEEN NASA	FMEA/CIL AND	IOA ANALYSI TEM MANAGEI	ES ARE MARKED					

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/17/88 MECH/ETU-35 05-6ED-2030	10A -3	NASA DATA: BASELINE [ ] NEW [ X ]						
	3510	PD&C L DOOR OPEN-C	LOSE SWITCH						
LEAD ANALYST:	J. BACHER								
ASSESSMENT:									
CRITICALI FLIGHT		JNDANCY SCREE	NS	CIL					
HDW/FUN		В	С	ITEM					
NASA [ 2 /1R IOA [ 3 /3	] [ P ] ] [ ]	[ P ] [ ]	[ P ] [ ]	[ X ] * [ X ]					
COMPARE [ N /N	] [ N ]	[ N ]	[и]	[ ]					
RECOMMENDATIONS:	(If differ	ent from NAS	A)						
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IOA AGREES WITH T THE DISCREPANCY B AS AN ISSUE UNTIL	ETWEEN NASA	FMFA/CTT AND	IOA ANALYSE TEM MANAGER	S ARE MARKEI					

ASSESSMENT DA' ASSESSMENT ID NASA FMEA #:	TE: 2/17/8 : MECH/1 05-6E	88 ETU-3501G D-2126-2	<b>;</b>		ATA: INE [ ] NEW [ X ]						
SUBSYSTEM: MDAC ID: ITEM:	MECH/1 3501 RELAY	·									
LEAD ANALYST:	J. BA	CHER									
ASSESSMENT:	ASSESSMENT:										
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM											
	/FUNC	A	В	С							
NASA [ 3 IOA [ 2	/1R ] /1R ]	[ P ] [ P ]	[ F ] [ F ]	[ P ] [ P ]	[ X ] * [ X ]						
COMPARE [ N	/ 1	[ ]	[ ]	[ ]	[ ]						
RECOMMENDATIO	NS: (If	differer	nt from	NASA)							
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* CIL RETENTI	ON RATION	ALE: (If	applica	ADEQUA!	re [X] re [ ]						
INADEQUATE [ ] REMARKS: IOA AGREES WITH THE FMEA/CIL. THE DISCREPANCY BETWEEN NASA FMEA/CIL AND IOA ANALYSES ARE MARKED AS AN ISSUE UNTIL RESOLVED WITH THE SUBSYSTEM MANAGER.											

ASSESSME ASSESSME NASA FME	CNT	I	D:	ME	2/17/88 MECH/ETU-3503E D5-6ED-2126-2							NASA DATA: BASELINE [ ] NEW [ X ]						
SUBSYSTE MDAC ID:				35	MECH/ETUD/EPD&C 3503 RELAY													
LEAD ANA	LYS	ST	:	J.	• BACHER													
ASSESSMENT:																		
CRITICALITY REDUNDANCY SCREENS FLIGHT											CIL							
	ŀ		W/FUI	_	A B						С				ITEM			
NASA IOA	]	3 2	/1R /1R	]		[	P P	]	]	F F	]	[	P P	] ]	;	x [ x	]	*
COMPARE	[	N	/	]		[		]	[		]	[		]		[	J	
RECOMMEN	DAT	ľIC	ONS:		(If	di	Ĺfi	fere	nt 1	fro	om N	ASA)						
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NASA DATA:

ASSESSMENT DATE ASSESSMENT ID: NASA FMEA #:	MECH/ET	U-3501	: [ x ]		
SUBSYSTEM: MDAC ID: ITEM:	MECH/ET 3501 RELAY	UD/EPD&C			
LEAD ANALYST:	J. BACH	ER			
ASSESSMENT:					
CRITICA FLIG	LITY	REDUNDA	NCY SCRE	ENS	CIL ITEM
	UNC	A	В	С	
NASA [ 2 /1 IOA [ 2 /1	R ] [ R ] [	P ] P ]	[ P ] [ F ]	[ P ] [ P ]	[ X ] * [ X ]
COMPARE [ /	] [	]	[ N ]	[ ]	[ ]
RECOMMENDATIONS	: (If d	lifferent	from NA	SA)	
[ /	) [	]	[ ]	[ ] (A	[ ] ADD/DELETE)
* CIL RETENTION	RATIONAL	LE: (If a	npplicabl	e) ADEQUATE INADEQUATE	[ X ] [ ]
REMARKS: IOA AGREES WITH THE DISCREPANCY AS AN ISSUE UNT	BETWEEN	NASA FME	EA/CIL AN THE SUBS	D IOA ANALYS	SES ARE MARKED

ASSESSMI ASSESSMI NASA FMI	ENT	ID:	MECH,	/ETT	502 7 <b>-</b> 1		NASA DATA: BASELINE [ ] NEW [ X ]								
SUBSYSTE MDAC ID:	EM:		MECH, 3502 RELA		JD/	EPD&C									
LEAD ANA	LYS'	T:	J. B	ACHE	ER										
ASSESSME	ENT:														
		TICAL FLIGH	ITY T		RE	DUNDA	NCY	SCR	EENS	3			CIL ITE		
	H	DW/FU	NC		A		В			С		•			
NASA IOA	[ :	2 /1R 3 /3	]	[	P	]	[ P	]	]	P	]		[ X [ X	]	*
COMPARE	[ 1	и / и	]	[	N	]	[ N	]	[	N	]	[		]	
RECOMMEN	DAT]	cons:	(If	di	ff	erent	fr	om N	ASA)						
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* CIL RE	TENI	CION 1	RATION	ALE	:	(If ap	pl.	icab]	-	AΓ	EQUATE	r	×	1	
REMARKS: IOA AGRE THE DISC	REPA	MCY I	BETWEE	N N	ASI	A FMEA	/C:	IL AI	IN ND I	AD OA	EQUATE ANALYS	SES		•	MARKED
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/ETU-3	2/17/88 NASA DATA: MECH/ETU-3501A BASELINE 05-6ED-2127-2 NEW							
SUBSYSTEM: MDAC ID: ITEM:	MECH/ETUD/ 3501 RELAY	EPD&C							
LEAD ANALYST:	J. BACHER								
ASSESSMENT:									
CRITICAL: FLIGH	ITY RI	DUNDANC	Y SCREENS	5	CIL ITEM				
HDW/FU		I	В	С					
NASA [ 2 /1R IOA [ 2 /1R	] [ P ]	] [ ]	P ] [ F ] [	P ] P ]	[ X	] *			
COMPARE [ /	] [	] [1	и ] [	]	[	]			
RECOMMENDATIONS:	(If dif	ferent f	rom NASA	)					
[ /	] [	] [	) [	] (AI	[ DD/DE	] :LETE)			
* CIL RETENTION	RATIONALE:	(If app	licable) I	ADEQUATE NADEQUATE	x ]	]			
REMARKS: IOA AGREES WITH THE DISCREPANCY AS AN ISSUE UNTI	BETWEEN NA	SA FMEA/	CIL AND	IOA ANALYS	ES AF				

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/17/88 MECH/ETU-3502A 05-6ED-2127-2	: [ ] [ x ]				
SUBSYSTEM: MDAC ID: ITEM:	MECH/ETUD/EPD&C 3502 RELAY					
LEAD ANALYST:	J. BACHER					
ASSESSMENT:						
FLIGHT		CY SCREENS	CIL ITEM			
HDW/FUN	NC A	В С				
NASA [ 2 /1R IOA [ 3 /3	] [ P ] [ ] [	P ] [ P ] ]	[ X ] * [ X ]			
COMPARE [ N /N	] [ N ] [	иј [иј	[ ]			
RECOMMENDATIONS:	(If different f	from NASA)				
[ /	] [ ] [		[ ] DD/DELETE)			
* CIL RETENTION R	ATIONALE: (If app	olicable)				
REMARKS:		ADEQUATE INADEQUATE	[ ] [ X ]			
IOA AGREES WITH T THE DISCREPANCY B	ETWEEN NASA FMEA/	CIL AND IOA ANALYSE E SUBSYSTEM MANAGER	S ARE MARKED			

ASSESSMENT ASSESSMENT NASA FMEA	ID:	MEC	2/17/88 NASA DATA MECH/ETU-3501B BASELINE 05-6ED-2129-1 NEW							] 3						
SUBSYSTEM: MDAC ID: ITEM:		350	CH/ETU 01 LAY	JD/	EPD&	C										
LEAD ANALY	ST:	J.	BACH	ER												
ASSESSMENT	:															
CR	ITICA FLIC			RE	DUND	ANC	Y	SCR	EENS	5			L CEM		•	
	HDW/F			A			В			С						
NASA [ IOA [	2 /1 2 /1	LR ] LR ]	] [	P P	]	[	P F	]	[	P P	]	[	X X	]	*	
COMPARE [	/	1	ι		]	[	N	]	[		1	[		1		
RECOMMENDA	TIONS	S:	(If d	if	feren	t :	fr	om N	IASA	)						
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* CIL RETE	ENTIO	N RAT	IANOI!	E:	(If	ap	pl	icak	ole) I	IA IAN	DEQUATE DEQUATE	]	X	]		
REMARKS: IOA AGREES THE DISCRI	TO A NO	v pri	WEEN	NA	SA FN	ŒA I T	/C HE	IL Z	AND BSYS	IO2 TEI	A ANALY M MANAC	SES.	A	RE	MARKEI	)

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/17/88 MECH/ETU- 05-6ED-21	3503 29 <b>-</b> 1		NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/ETUD 3503 RELAY	/EPD&C			
LEAD ANALYST:	J. BACHER				
ASSESSMENT:					
CRITICALI FLIGHT		EDUNDANCY	SCREENS	<b>3</b>	CIL
	IC A	E	3	С	ITEM
NASA [ 2 /1R IOA [ 2 /1R	] [ P ] [ P	] [ F	] [	P ] P ]	[ X ] * [ X ]
COMPARE [ /	] [	] [ N	, j (	]	[ ]
RECOMMENDATIONS:	(If diff	erent fr	om NASA)		
[ /	] [	] [	] [		[ ] D/DELETE)
* CIL RETENTION R	ATIONALE:	(If appl	•		
REMARKS:			IN	ADEQUATE ADEQUATE	[ <b>X</b> ]
IOA AGREES WITH THE DISCREPANCY BEAS AN ISSUE UNTIL	ETWEEN NAS	A FMEA/C	IL AND IC SUBSYST	OA ANALYSE EM MANAGER	S ARE MARKED

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/ETU-3501C	NASA DATI BASELINI NEV	
	MECH/ETUD/EPD&C 3501 RELAY		
LEAD ANALYST:	J. BACHER		
ASSESSMENT:			
CRITICAL		ANCY SCREENS	CIL ITEM
FLIGH HDW/FU		в с	
NASA [ 2 /1R IOA [ 2 /1R	] [ P ] ] [ P ]	[ P ] [ P ] [ F ] [ P ]	[ X ] * [ X ]
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RECOMMENDATIONS:	(If different	t from NASA)	
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* CIL RETENTION	RATIONALE: (If	applicable) ADEQUATE INADEQUATE	[ X ]
REMARKS: IOA AGREES WITH THE DISCREPANCY AS AN ISSUE UNTI	BETWEEN NASA FM	EA/CIL AND IOA ANALY THE SUBSYSTEM MANAG	SES ARE MARKED

ASSESSMI ASSESSMI NASA FMI	ENT :	ID:	MECH	/ETU	-350: 130-2	3 <b>A</b> 2		BASEI	NASA DATA: BASELINE [ ] NEW [ X ]						
SUBSYSTE MDAC ID:			MECH, 3503 RELAY		D/EP[	0&C									
LEAD ANA	LYST	r:	J. BA	CHE	R										
ASSESSME	NT:														
		'ICAL 'LIGH'		]	REDUN	DANCY	SCF	REENS	CIL						
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NASA IOA	[ 2 [ 2	/1R /1R	]	[ ]	? ] ? ]	[ P	]	[ P ] [ P ]	[ X ] * [ X ]						
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IOA AGREE	ES W	ITH T	HE FMI	7A / C	TT.										

THE DISCREPANCY BETWEEN NASA FMEA/CIL AND IOA ANALYSES ARE MARKED AS AN ISSUE UNTIL RESOLVED WITH THE SUBSYSTEM MANAGER.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/ETU-3501	ECH/ETU-3501D BASELIN: 5-6ED-2131-1 NE							
SUBSYSTEM: MDAC ID: ITEM:	MECH/ETUD/EPD 3501 RELAY	ELAY							
LEAD ANALYST:	J. BACHER								
ASSESSMENT:									
CRITICAL		NDANCY SCREENS	;	CIL ITEM					
FLIGH HDW/FU		В	С						
NASA [ 2 /1R IOA [ 2 /1R	] [ P ] ] [ P ]	[ P ] [ [ F ] [	P ] P ]	[ X ] *					
COMPARE [ /	] [ ]	[ N ] [	1	[ ]					
RECOMMENDATIONS:	(If differ	ent from NASA	)						
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* CIL RETENTION	RATIONALE: (I	f applicable) I	ADEQUATE NADEQUATE	[ X ]					
REMARKS: IOA AGREES WITH THE DISCREPANCY AS AN ISSUE UNTI	DEPUTERN NASA	FMEA/CLL AND	IOA ANALYS TEM MANAGE	ES ARE MARKED					

ASSESSM ASSESSM NASA FM	EN	T 1	D:		MI	ECH/	ET	U-	350 31-	)3B -1							ASA D. BASEL		[			
SUBSYST MDAC ID ITEM:	EM :	:			35	CH/ 03 LAY		UD	/EP	PD&C	2											
LEAD AN	AL	YST	<b>':</b>		J.	BA	CH:	ER														
ASSESSM	EN'	T:																				
	C		LI	GH1	ľ			R	EDU	NDA	N	CY	SC	REE	NS	<b>;</b>				[L [EN	ur.	
		HD	W/]	FUN	1C			A				В				С				. er	1	
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REMARKS:														1	N	AD AD	EQUAT EQUAT	E E	[	X	]	
IOA AGRE THE DISC AS AN IS	ES	PAN	ICY	B	ETV	<b>JEEN</b>	N	AS	A F	ME	<b>A/</b>	CI	L A	ND	I	ΟA	ANAL	YSE.	s i	AR	E	MARKEI
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ASSESSMENT DANSSESSMENT IINASA FMEA #:	D:	MEC	ECH/ETU-3501E BASELING 05-6ED-2131-2 NEW								[		]		
SUBSYSTEM: MDAC ID: ITEM:		350	ELAY												
LEAD ANALYST	:	J.	BACHI	ER											
ASSESSMENT:															
				RE	EDUNI	OANC	Y	SCR	EENS	3			IL PEM	1	
	LIGH W/FU			A			В			С					
NASA [ 2 IOA [ 2	/1R	i ]	[	P P	]	[ [	P F	]	[	P P	]	[	X	]	*
COMPARE [	/	]	[		]	[	N	]	(		]	[		]	
RECOMMENDATI	ons:		(If d	if:	fere	nt i	fr	om 1	ASA	)					
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* CIL RETENT	rion	RAT	IONAL	E:	(If	ap	pΊ	ical			DEQUATE DEQUATE	[	x	]	
REMARKS: IOA AGREES V THE DISCREPA AS AN ISSUE	VOICE	חשום	wrrn	NΔ	SAF	MEA H T	/C HE	IL :	AND BSYS	IO.	A ANALY M MANAG	SES ER.	A	RE	MARKE

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/ETU-	MECH/ETU-3503C BASELINE 05-6ED-2131-2 NEW							
SUBSYSTEM: MDAC ID: ITEM:	MECH/ETUE 3503 RELAY	)/EPD&C							
LEAD ANALYST:	J. BACHER	<b>t</b>							
ASSESSMENT:									
CRITICAL: FLIGHT	r	EDUNDAN	CY SCREE	ens	CIL ITEM				
HDW/FUI	NC A		В	С					
NASA [ 2 /1R IOA [ 2 /1R	] [ P	] [	P ] F ]	[ P ] [ P ]	[ X ] * [ X ]				
COMPARE [ /	] [	] [	<b>N</b> ]	[ ]	[ ]				
RECOMMENDATIONS:	(If dif:	ferent f	rom NAS	A)					
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* CIL RETENTION R	ATIONALE:	(If app	licable	)					
REMARKS:				ADEQUATE	[ <b>x</b> ]				
IOA AGREES WITH T THE DISCREPANCY B AS AN ISSUE UNTIL	ETWEEN NAS	ZA EMEA/	CIL AND E SUBSYS	IOA ANALYSE STEM MANAGER	S ARE MARKED				

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/ETU-35	01F -2	NASA DATA: BASELINE NEW								
SUBSYSTEM: MDAC ID: ITEM:	MECH/ETUD/E 3501 RELAY	PD&C									
LEAD ANALYST:	J. BACHER										
ASSESSMENT:											
CRITICAL		OUNDANCY SCREEN	<b>1</b> S	CIL ITEM							
FLIGH HDW/FU		В	С								
NASA [ 2 /1F IOA [ 2 /1F	[P]	[ P ] [ F ]	[ P ] [ P ]	[ X ] * [ X ]							
COMPARE [ /	] [ ]	ן וא ]	[ ]	[ ]							
RECOMMENDATIONS:	(If diffe	erent from NAS	A)								
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* CIL RETENTION	RATIONALE:	(If applicable	ADEQUATE								
11017	REMARKS: IOA AGREES WITH THE FMEA/CIL. THE DISCREPANCY BETWEEN NASA FMEA/CIL AND IOA ANALYSES ARE MARKED AS AN ISSUE UNTIL RESOLVED WITH THE SUBSYSTEM MANAGER.										

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SUBSYSTI MDAC ID: ITEM:	EM:			3	ECH/ 503 ELAY		du	/EPD	&C							•	•	•	
LEAD ANA	\LY:	ST	:	J	. BA	СН	ER												
ASSESSME	ENT	:																	
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NASA IOA	[	2 2	/1R /1R	]		[	P P	]	[	P F	]	1	P	]		K ]	[ ]	*	
COMPARE	[		/	]		ſ		]	[	N	]	[		]		[	]		
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NASA DATA:

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/ETU	-3522 250-1	NASA DATA: BASELINE NEW		
SUBSYSTEM: MDAC ID: ITEM:	MECH/ETU 3522 DIODE	D/EPD&C			
LEAD ANALYST:	J. BACHE	SR .			
ASSESSMENT:					
CRITICAL FLIGH		REDUNDA	NCY SCREE	ens	CIL ITEM
	NC	A	В	С	
NASA [ 3 /1R IOA [ 2 /1R	] [	P ] F ]	[ F ] [ F ]	[ P ] [ P ]	[ X ] *
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/ETU-3522E									
SUBSYSTEM: MDAC ID: ITEM:	MECH/ETUD/EPD&C 3522 DIODE									
LEAD ANALYST:	J. BACHER									
ASSESSMENT:										
CRITICAL: FLIGHT		CY SCREENS	CIL							
HDW/FUI		В С	ITEM							
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/ETU	-3523G 251 <b>A</b> -1	NASA DATA: BASELINE NEW	[ x ]						
SUBSYSTEM: MDAC ID: ITEM:	MECH/ETU 3523 DIODE	ID/EPD&C								
LEAD ANALYST:	J. BACHE	ER								
ASSESSMENT:										
CRITICAL FLIGH		REDUNDANC	Y SCREENS	5	CIL ITEM					
HDW/FU		A	В	С						
NASA [ 3 /1R IOA [ 3 /3	] [	P ] [	F ] [	P ]	[ X ] *					
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ASSESSM	MENT DATE: 2/17/88 MENT ID: MECH/ETU-3522F MEA #: 05-6ED-2251A-2									NASA DATA: BASELINE [ ] NEW [ X ]								
SUBSYST MDAC ID ITEM:	EM:	•		3	MECH, 3522 DIODI		מטי	/EP	D&C									
LEAD AN	ALY	ST	:	J	г. ва	ACH	ER											
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/ETU-	-3523H 251A-2		NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/ETUI 3523 DIODE	D/EPD&C			
LEAD ANALYST:	J. BACHEI	ર			
ASSESSMENT:					
CRITICAL		REDUNDAN	CY SCREEN	ıs	CIL ITEM
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/ETU-	-3522C 251B-2		ASA DATA BASELINE NEW							
	MECH/ETUI 3522 DIODE	D/EPD&C									
LEAD ANALYST:	J. BACHER	₹									
ASSESSMENT:											
CRITICAL FLIGH		REDUNDANCY	SCREENS		CIL ITEM						
HDW/FU	NC A	В	С								
NASA [ 3 /1R IOA [ 2 /1R	] [ F	f ] [ F f ] [ F	] [ P	]	[ X ] * [ X ]						
COMPARE [ N /	] [	] [	] [	1	[ ]						
RECOMMENDATIONS:	(If dif	ferent fr	om NASA)								
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SUBSYSTEM MDAC ID: ITEM:	:		ME( 352 DI(	23	TU	<b>D/</b> :	EPD&(	3												
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COMPARE	[	/N	]		[	N	]	[	N	1		[	N	]		[	N	]		
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SUBSYSTI MDAC ID: ITEM:	EM:			3	ECH/ 522 IODE		UD	/EPD	&C										
LEAD ANA	ALY	ST	:	J.	. BA	CH	ER												
ASSESSME	ENT	:																	
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COMPARE	[	N	/	]		[	N	]	[		]	[		)		[	]		
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SUBSYSTEM MDAC ID:	:			352		ru:	<b>D/</b> 1	EPD&C												
LEAD ANAI	YST	r:		J.	BAC	HE	R													
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REMARKS: IOA AGREES WITH THE FMEA/CIL. THE DISCREPANCY BETWEEN NASA FMEA/CIL AND IOA ANALYSES ARE MARKED AS AN ISSUE UNTIL RESOLVED WITH THE SUBSYTEM MANAGER.																				

ASSESSMENT DATE ASSESSMENT ID: NASA FMEA #:	MECH/ETTI	-3522D 252B-2		NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/ETU 3522 DIODE	D/EPD&C			
LEAD ANALYST:	J. BACHE	R			
ASSESSMENT:					
CRITICAL FLIGH		REDUNDANC	Y SCREENS	5	CIL
HDW/FU		A	В	С	ITEM
NASA [ 3 /1R IOA [ 2 /1R	] [1	P ] [	F ] [	P ] P ]	[ X ] * [ X ]
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/ETU-	3523F 52B-2		NASA DATA: BASELINE NEW	_
SUBSYSTEM: MDAC ID: ITEM:	MECH/ETUD, 3523 DIODE	/EPD&C			
LEAD ANALYST:	J. BACHER				
ASSESSMENT:					
CRITICAL		EDUNDAN	CY SCREE	NS	CIL ITEM
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LEAD ANA	LY	ST	:	J	. BA	CH	ER													
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/ETU-3	523 <b>A</b> 55 <b>-</b> 2		NASA DATA: BASELINE NEW	
MDAC ID:	MECH/ETUD/ 3523 DIODE	EPD&C			
LEAD ANALYST:	J. BACHER				
ASSESSMENT:					
CRITICAL		EDUNDANC	Y SCREEN	IS	CIL ITEM
FLIGH HDW/FU			В	С	
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RECOMMENDATIONS:	(If dif	ferent i	from NAS	A)	
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REMARKS: IOA AGREES WITH THE DISCREPANCY AS AN ISSUE UNTI	αρσωρέν Νλ	SA FMEA	/CIL AND HE SUBSY	IOA ANALYS TEM MANAGER	ES ARE MARKED

ASSESSM ASSESSM NASA FM	ENT ENT EA	r c r i #:	AT D:	E:	2, MI 0!	/17/ ECH/ 5-6E	/88 /E1 ED-	บ- •22	352 57-	2B 2					ASA DA' BASELII Ni		[	x	]	
SUBSYST MDAC ID ITEM:	EM:				35	ECH/ 522 IODE		ישני	/EP	D&C										
LEAD AN	ALY	ST	:		J.	BA	CH	ER												
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SUBSYSTEM: MDAC ID: ITEM:		MECH/ES 3523 DIODE	rud/i	EPD&C									
LEAD ANALYS	T:	J. BAC	HER										
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COMPARE [	/N	]	[ N	]	[ ]	N	] [	N	]	[	N	]	
RECOMMENDAT	rions:	(If	diff	erent	f	rc	om NASA	١)					
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SUBSYSTI MDAC ID: ITEM:	EM:			35	ECH/ 523 CODE		UD	/EPD	&C										
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ASSESSME	ENT:											
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NASA IOA		•		[ [ P	]	[ [ P	]	[ [ P	]	Κ ] Κ ]	; ] <b>*</b>	t
COMPARE	[	/	]	[ N	1	[ N	]	[ ]	]	[	]	
RECOMME	TACK	ions:	(I	f dif	fere	nt fr	om N	ASA)				
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* CIL R		TION	RATIC	NALE:	(If	appl	icab.	Al	DEQUATE DEQUATE		]	
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ASSESSMEI	ASSESSMENT DATE: 1/08/88 ASSESSMENT ID: MECH/ADP-1500 NASA FMEA #: 05-6EE-2002-1													ASA D. BASEL		[		]	
SUBSYSTEM MDAC ID:	M:			MECH, 1500 +28V		•													
LEAD ANAI	LYS	ST	:	A.D.	MO	NT	GOMI	ERY											
ASSESSMEN	NT:	:																	
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MDAC TD:	MECH/ADP 1507 +28V CON				
LEAD ANALYST:	A.D. MON	TGOMERY			
ASSESSMENT:					
		REDUNDA	NCY SCREE	ns	CIL ITEM
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SUBSYSTEM: MDAC ID: ITEM:	MECH/ADI 1509 +28V CON				
LEAD ANALYST:	A.D. MOR	NTGOMERY			
ASSESSMENT:					
		REDUNDA	NCY SCREE	NS	CIL ITEM
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	MECH/ADP 1534 +28V CON		<b>:</b>		
LEAD ANALYST:	A.D. MON	TGOMERY	?		
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	MECH/AD 1536 +28V CC				
LEAD ANALYST:	A.D. MO	NTGOMER	Y		
ASSESSMENT:					
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	MECH/ADE 1539 +28V CON				
LEAD ANALYST:	A.D. MON	TGOMERY			
ASSESSMENT:					
CRITICAL		REDUNDA	NCY SCREE	INS	CIL ITEM
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SUBSYSTEM: MDAC ID: ITEM:	1540	ADP/EPD					
LEAD ANALYST:	A.D.	MONTGOM	ERY				
ASSESSMENT:							
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ASSESSMI	ENT	:												
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LEAD ANALYST:	A.D. MON	ITGOMERY	•		
ASSESSMENT:					
		REDUNDA	NCY SCREE	ns	CIL ITEM
FLIGH HDW/FU		A	В	С	
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/08/88 MECH/ADI 05-6EE-2	2-1545A		NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADI 1545 +28V COI	P/EPD&C			
LEAD ANALYST:	A.D. MO	NTGOMERY			
ASSESSMENT:					
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SUBSYSTEM: MDAC ID: ITEM:	MECH/ADE 1547 +28V CON				
LEAD ANALYST:	A.D. MON	ITGOMERY			
ASSESSMENT:					
CRITICAL		REDUNDA	NCY SCREE	ns	CIL ITEM
FLIGH HDW/FU		A	В	С	
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SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP/EPD 1548 +28V CONTACT			•				
LEAD ANALYST:	A.D. MONTGOM	ERY						
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MDAC ID:	MECH/A 1549 +28V C								
LEAD ANALYST:	A.D. M	ONTG	OMERY						
ASSESSMENT:									
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LEAD ANALYST:		-			
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LEAD ANALYST	:	A.D. M	ONTG	OMERY							
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ASSESSMENT:					
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	MECH/ADI 1501 +28V CON				
LEAD ANALYST:	A.D. MOI	NTGOMERY			
ASSESSMENT:					
CRITICAL		REDUNDA	NCY SCREE	ns	CIL ITEM
FLIGH HDW/FU		A	В	С	
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SUBSYSTEM: MDAC ID: ITEM:	MECH/ADI 1503 +28V CON				
LEAD ANALYST:	A.D. MOI	ITGOMERY			
ASSESSMENT:					
		REDUNDA	NCY SCREE	NS	CIL ITEM
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MDAC TD:	MECH/ADI 1505 +28V CON				
LEAD ANALYST:	A.D. MOI	NTGOMERY			
ASSESSMENT:					
		REDUNDA	NCY SCREE	NS	CIL ITEM
FLIGH HDW/FU		A	В	С	
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LEAD ANALYST:	A.D. MONTO	GOMERY			
ASSESSMENT:					
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SUBSYSTEM: MDAC ID: ITEM:	MECH/ADI 1507 +28V CON				
LEAD ANALYST:	A.D. MOI	NTGOMERY			
ASSESSMENT:					
		REDUNDA	NCY SCREE	NS	CIL ITEM
FLIGH HDW/FU		A	В	С	
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LEAD ANALYST:	A.D. MON	TGOMERY			
ASSESSMENT:					
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ASSESSMENT:				
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CAUSE CANCELLATION OF MISSION.

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SUBSYSTEM: MDAC ID: ITEM:	MECH/AD 1515 +28V CO	P/EPD&C NTACT #4			
LEAD ANALYST:	A.D. MO	NTGOMERY			
ASSESSMENT:					
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CAUSE CANCELLATION OF MISSION.

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	MECH/ADP/I 1520 +28V CONTA			
LEAD ANALYST:	A.D. MONTO	GOMERY		
ASSESSMENT:				
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LEAD ANALYST:	A.D. MONTGOMERY	•											
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FAILURE OF SECOND ITEM FUNCTION REQUIRED TO CAUSE LOSS OF LIFE/VEHICLE. IOA HARDWARE CRITICALITY UPGRADED AFTER REEVALUATION DUE TO DETERMINATION THAT HARDWARE FAILURE WOULD CAUSE CANCELLATION OF MISSION.													

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CAUSE CANCELLATION OF MISSION.

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LEAD ANALYST:	A.D. MON	NTGOMERY	7		
ASSESSMENT:					
CRITICALI FLIGHT		REDUNDA	NCY SCRE	ENS	CIL
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/08/88 MECH/ADP 05-6EE-2	-1535 002-2		NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADF 1535 +28V CON				
LEAD ANALYST:	A.D. MON	ITGOMERY			
ASSESSMENT:					- <b>-</b>
CRITICAL		REDUNDA	NCY SCREE	NS	CIL ITEM
FLIGH HDW/FU		A	В	С	
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* CIL RETENTION	RATIONAI	E: (If	applicable	e) ADEQUATE INADEQUATE	
REMARKS: FAILURE OF SECO LIFE/VEHICLE. REEVALUATION DU CAUSE CANCELLAT	IOA HARDV E TO DETI	VARE CRI ERMINATI	REQUIRED TICALITY ON THAT H	TO CAUSE LA UPGRADED AF ARDWARE FAI	OSS OF TER LURE WOULD

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SUBSYSTEM: MDAC ID: ITEM:	1536	/ADP/EPD&			. ,
		CONTACT	•		
LEAD ANALYS	T: A.D.	MONTGOMER	RY		
ASSESSMENT:					
	TICALITY FLIGHT	REDUND	ANCY SCR	EENS	CIL
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LEAD ANA	LYS	T:		A.D.	MON	)TC	OM	ERY											
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REMARKS: FAILURE LIFE/VER REEVALUA CAUSE CA	OF HIC ATI	LE ON	. I	OA H	ARDW DETE	AR RM	E C In?	RI:	rт	CA	ייוי דע	ED T	O GR	CAUSE ADED	LO AFT	SS ER	0	F	ULD

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	MECH/ADP/EPD&C 1538 +28V CONTACT #4	
LEAD ANALYST:	A.D. MONTGOMERY	
ASSESSMENT:		
CRITICALI FLIGHT	TY REDUNDANCY SCRE	ENS CIL ITEM
HDW/FUN	C A B	C
NASA [ 1 /1 IOA [ 3 /1R	] [ ] [ ] ] [ P ] [ F ]	[ ] [ X ] * [ Y ]
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* CIL RETENTION RA	ATIONALE: (If applicable	ADEQUATE [ ]
ntre/ Arutche. TO	ITEM FUNCTION REQUIRED A HARDWARE CRITICALITY UFFOR THAT HANGE OF MISSION.	TO CAUSE LOSS OF

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MDAC TD:	MECH/ADE 1539 +28V CON				
LEAD ANALYST:	A.D. MON	ITGOMERY			
ASSESSMENT:					
CRITICAL		REDUNDA	NCY SCREE	NS	CIL ITEM
FLIGH HDW/FU		A	В	С	
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SUBSYST MDAC ID ITEM:	EM:	•		MECH 1540 +28V									
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ASSESSM	ENT	<b>!:</b>											
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ASSESSMENT DATE: 1/08/88 ASSESSMENT ID: MECH/ADP-1541 NASA FMEA #: 05-6EE-2002-2 SUBSYSTEM: MECH/ADP/EPD&C							11-2					N	IASA DI BASELI	INE		x	]		
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				NC		A				В			С			IT:	EM		
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SUBSYSTEM: MDAC ID:	15	CH/ADP/E 42 8V CONTA								
ITEM: Lead analyst										
ASSESSMENT:										
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* CIL RETENT	rion RAT	CIONALE:	(If ag	ppli		ADEQUAT LAUQADAN	re ( re (		]	
REMARKS: FAILURE OF S LIFE/VEHICL REEVALUATION CAUSE CANCE	E. IOA N DUE TO	HARDWAR DETERM	E CRITI INATIO	TCAL	ITY UP	GRADED F	71 T L L			IJ <b>L</b> D

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/08/88 MECH/ADI 05-6EE-	P-1543		NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/AD 1543 +28V CO	P/EPD&C NTACT #2			
LEAD ANALYST:	A.D. MO	NTGOMERY			
ASSESSMENT:					
CRITICAL		REDUNDA	NCY SCREE	NS	CIL ITEM
FLIGH HDW/FU		A	В	С	
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LEAD AN	ALY	S]	<b>:</b>	A.D.	MON	rgome	RY							
ASSESSMI	ENT	<b>?:</b>												
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	,			NC	A	<b>L</b>	В		C	2		ITE	EM	
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SUBSYSTEM: MDAC ID: ITEM:				MECH, 1545 +28V															
LEAD ANAL	YS	T:		A.D.	MON	TG	OMI	ERY											
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	F		JIGH V/FU			A				В			C	;					
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RECOMMENI	DA!	TI(	ONS:	(1	[f d	if:	fer	ent	: :	fro	om	NAS	٧)						
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				NC	A	1	В		(	2	1	TE	EM	
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FAILURE LIFE/VE	OF																	OF	•	
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REEVALUATION DUE TO DETERMINATION THAT HARDWARE FAILURE WOULD

CAUSE CANCELLATION OF MISSION.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/AD	P-1548		NASA DATA BASELINE NEW									
	MECH/ADI 1548 +28V COI												
LEAD ANALYST:	A.D. MOI	NTGOMERY	?										
ASSESSMENT:													
CRITICAL FLIGH HDW/FU	T	REDUNDA A	NCY SCREE	ens C	CIL ITEM								
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* CIL RETENTION	RATIONAL	E: (If a	applicable										
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FAILURE OF SECON LIFE/VEHICLE. I REEVALUATION DUE	ADEQUATE [ ] INADEQUATE [ ] REMARKS: FAILURE OF SECOND ITEM FUNCTION REQUIRED TO CAUSE LOSS OF												

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SUBSYSTEM: MDAC ID: ITEM:	MECH/1 1549 +28V (								
LEAD ANALYST:	A.D. 1	MONTGO	MERY						
ASSESSMENT:									
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	MECH/ADE 1550 +28V CON		<b>:</b>		
LEAD ANALYST:	A.D. MON	ITGOMERY	?		
ASSESSMENT:					
CRITICALI FLIGHT		REDUNDA	NCY SCREE	ens .	CIL ITEM
HDW/FUN	NC	A	В	С	
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LEAD ANALYST:	A.D. MONT	GOMERY	?							
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NASA IOA	[ :	1 /	′1 ′3	]	]	]	[	]	[ [	]	[	X X	]	*
COMPARE	[ ]	4 /	'N	]	[	]	[	]	[	1	[		]	
RECOMMENI	DAT	CON	ıs:	(:	If dif	fere	nt fro	om N.	ASA)					
	[ 2	2 /	'1R	]	[ P	]	[ F	]	[ 1	<b>'</b> ]		A 'DE		ETE)
* CIL RET	rent	ric	N F	RATIO	ONALE:	(If	appl	<b>Lcab</b>	A	DEQUA'	[		]	
REMARKS:										XAU	 L		J	

FAILURE OF SECOND ITEM FUNCTION REQUIRED TO CAUSE LOSS OF LIFE/VEHICLE. IOA HARDWARE CRITICALITY UPGRADED AFTER REEVALUATION DUE TO DETERMINATION THAT HARDWARE FAILURE WOULD CAUSE CANCELLATION OF MISSION.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/ADI	2-1554 2002-2		NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADI 1554 +28V CON	•			
LEAD ANALYST:	A.D. MON	NTGOMERY			
ASSESSMENT:					
CRITICAL: FLIGHT		REDUNDA	NCY SCRE	ENS	CIL ITEM
HDW/FUI		A	В	С	
NASA [ 1 /1 IOA [ 3 /1R	] [	p ]	[	[ P]	[ X ] * [ X ]
COMPARE [ N /N	] [	и ј	[и]	[ N ]	[ ]
RECOMMENDATIONS:	(If d	ifferent	from NA	SA)	
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* CIL RETENTION	RATIONAL	E: (If a	applicabl	.e) ADEQUATE INADEQUATE	[ ]
REMARKS: FAILURE OF SECON LIFE/VEHICLE. I REEVALUATION DUE CAUSE CANCELLATION	OA HARDWA TO DETE	ARE CRIT RMINATIO	TICALITY	UPGRADED AFT	rer

ASSESSME ASSESSME NASA FME	NT	ID	re: :	MECH	/88 /ADP-1 EE-200	555 2-2					ASA DASEL			[ [ }	l	
SUBSYSTE MDAC ID:	M:	,		1555	I/ADP/E											
LEAD ANA	LYS	T:		A.D.	MONTG	OME	RY									
ASSESSME	NT:	:												_		
	CR		CAL		RE	IDAN	CY	SCR	EENS			CI				
	]		LIGH V/FU		A			В	ŀ	(	С					
NASA IOA	[	1	/1 /3	]	[ [	]	<b>!</b>		]	[	]		[	X X	]	*
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SUBSYST MDAC ID ITEM:	EM:	;		MECH 1524 +28V											-	_	
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ASSESSMI	ENT	<b>':</b>															
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		HD	W/FU	NC		A			В			С		1	TE	M	
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RECOMMEN	DAT	ric	ons:	(If	đ:	if1	fer	ent :	fro	om 1	NASA	)					
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* CIL RE	TEN	ΙΤΙ	ON R	ATION	ALE	:	(Ii	f app	li	.cak	ole)		·	-,			,
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ASSESSMENT ASSESSMENT NASA FMEA	T ID:	1/11/88 MECH/ADI 05-6EE-3	P-1	525A 3-1						SA DATA ASELINE NEW	[		]	
SUBSYSTEM MDAC ID: ITEM:	:	MECH/ADI 1525 +28V COI	P/E	PD&C				,						
LEAD ANAL	YST:	A.D. MO	NTG	OMERY	•									
ASSESSMEN'	T:													
c	RITICAL FLIGH	ITY T	RE	DUNDA	NC	Y:	SCREE	:NS	3			IL TEN	1	
	HDW/FU		A			В			С					
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REMARKS: LOSS OF S APPARENT" NECESSARY	DURING	FLIGHT.		SECONI	ו ס	FA:	LURE	ED P	T( RE	D BE "RE	AD	ΙL	Y	1G

ASSESSMENT ASSESSMENT NASA FMEA	'ID:	MECH/A	DP-	1526A 03-1						ASA DATI BASELINI NEV	E [		]	
SUBSYSTEM: MDAC ID: ITEM:		MECH/A 1526 +28V C	•											
LEAD ANALY	ST:	A.D. M	ONT	GOMER	Y									
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CR	ITICALI FLIGHT	[TY	R	EDUND	ANC	ZY	SCRE	EN:	S			ΙL	_	
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SUBSYSTEM MDAC ID:	I:	MECH/AD 1527 +28V CO				
LEAD ANAI	YST:	A.D. MC	NTGOMER	Y		
ASSESSMEN	NT:					
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REMARK	s:											IN	IAL	EQUATE EQUATE	į		]	
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ASSESSMENT ID: NASA FMEA #:	MECH/AD	P-1529A		BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/AD 1529 CONTACT				
LEAD ANALYST:	A.D. MO	NTGOMER)	ī.		
ASSESSMENT:					
CRITIC FLI		REDUNDA	ANCY SCRE	ENS	CIL ITEM
	FUNC	A	В	С	IILM
NASA [ 2 / IOA [ 3 /	LR ] [	P ]	[ P ] [ ]	[ P ] [ ]	[ x ] *
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* CIL RETENTIO	N RATIONAL	E: (If a	applicabl	e) ADEQUATE INADEQUATE	
REMARKS: LOSS OF SECOND APPARENT" DURI NECESSARY AIR	NG FLIGHT.	SECONI	D FAILURE	ED TO BE "RE PRECLUDES O	ADILY

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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/11/88 MECH/ADE 05-6EE-2	P-1531A 2003-1		NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADI 1531 CONTACT				
LEAD ANALYST:	A.D. MOI	NTGOMERY			
ASSESSMENT:					
CRITICAL		REDUNDA	NCY SCREE	NS	CIL ITEM
FLIGH HDW/FU		A	В	С	1154
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REMARKS: LOSS OF SECOND F APPARENT" DURING NECESSARY AIR PR	FLIGHT.	SECON	D FAILURE	PRECLUDES C	ADILY BTAINING

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SUBSYSTEM: MDAC ID: ITEM:	1524	OP/EPD&C	L		
LEAD ANALYST:	A.D. MO	ONTGOMERY	Ţ.		
ASSESSMENT:					
CRITIC FLI	ALITY GHT	REDUNDA	NCY SCRE	EENS	CIL
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LOSS OF SECOND APPARENT" DURI NECESSARY AIR	NG FLIGHT.	SECOND	FATLURE	PRECLIDES OF	ADILY STAINING

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/11/88 MECH/ADI 05-6EE-2	5-T252D		NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADI 1525 +28V COI	P/EPD&C			
LEAD ANALYST:	A.D. MO	NTGOMERY			
ASSESSMENT:					
CRITICAL		REDUNDA	NCY SCREE	ns	CIL ITEM
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NASA [ 2 /1R IOA [ 3 /3	; ] [	P ]	[ P ] [ ]	[ P ] [ ]	[ x ] *
COMPARE [ N /N	] (	и ]	[ N ]	[ N ]	[и]
RECOMMENDATIONS:	(If d	lifferent	from NAS	SA)	
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* CIL RETENTION	RATIONA	LE: (If a	applicable	e) ADEQUATE INADEQUATE	[ ]
REMARKS: LOSS OF SECOND DAPPARENT" DURING NECESSARY AIR P	c FITCHT	SECON	D LWITOUR	LICECTOR	EADILY OBTAINING

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SUBSYST MDAC ID ITEM:				ME( 15: +28	26			EPD:										•	
LEAD AN	ALY	SI	<b>':</b>	A.I	٥.	MO	NT	GOMI	ERY										
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L/11/88 MECH/ADP-1527B D5-6EE-2003-2	NASA DATA: BASELINE NEW	
MECH/ADP/EPD&C 1527 -28V CONTACT #2		
.D. MONTGOMERY		
		CIL ITEM
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LIGHT. SECOND FAI	IDERED TO BE "REALURE PRECLUDES OF	ADILY
	ECH/ADP-1527B 05-6EE-2003-2 ECH/ADP/EPD&C .527 28V CONTACT #2 A.D. MONTGOMERY  Y REDUNDANCY A B  [ P ] [ P ]  [ N ] [ N  (If different from [ P ] [ P ]  TIONALE: (If appliance) EDWARE ITEM IS CONSELIGHT. SECOND FAI	BASELINE 05-6EE-2003-2  DECH/ADP/EPD&C 0527 028V CONTACT #2  A.D. MONTGOMERY  PY REDUNDANCY SCREENS  A B C  [ P ] [ P ] [ P ]  [ N ] [ N ] [ N ]  (If different from NASA)  [ P ] [ P ] [ P ]  (AI  TIONALE: (If applicable)  ADEQUATE INADEQUATE INADEQUATE

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	MECH/ADI 1528 CONTACT												
LEAD ANALYST:	A.D. MOI	OTO	OMERY										
ASSESSMENT:													
CRITICAL: FLIGHT		RE	EDUNDA	NC	Y	SCREE	NS	3			IL CEN	Л	
HDW/FUI		A			В			C		-	<b></b> .	•	
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ASSESSMENT ASSESSMENT NASA FMEA #	ID:	MECH/AL	NASA DATA: MECH/ADP-1529B BASELINE D5-6EE-2003-2 NEW							[	x	]		
SUBSYSTEM: MDAC ID: ITEM:		MECH/AI 1529 CONTACT												
LEAD ANALYS	ST:	A.D. M	ЭТИС	OMERY										
ASSESSMENT:	•													
CR	ITICAL		RI	EDUNDA	ANC	Y:	SCREE	:NS	3		C1	[L PEM	1	
1	FLIGH HDW/FU		A			В			С					
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/ADD-1520D		NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP/EPD&C 1530 CONTACT #2			]
LEAD ANALYST:	A.D. MONTGOMER	Y		
ASSESSMENT:				
CRITICALI FLIGHT	TY REDUNDA	NCY SCREE	<b>1</b> S	CIL
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REMARKS:			ADEQUATE NADEQUATE	[ ] [ ]
LOSS OF SECOND HAR APPARENT" DURING F NECESSARY AIR PRES	DWARE ITEM IS O LIGHT. SECOND SURE DATA FOR A	CONSIDERED FAILURE PI A SAFE DESC	TO BE "REAL RECLUDES OBT CENT.	OILY PAINING

ASSESSMENT I ASSESSMENT I NASA FMEA #:	D: ME	CH/ADP-1531B BASELINE [				NASA DATA: BASELINE ( NEW (				
SUBSYSTEM: MDAC ID: ITEM:	15									
LEAD ANALYST	r: A.1	D. MONT	GOMERY							
ASSESSMENT:										
	TICALITY FLIGHT	R	EDUNDAN	CY SCRE	ENS		CI II	L EM		
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LOSS OF SECO	JRING FL	IGHT.	SECOND :	<b>FAILURE</b>	PR	ECLUDES C				iG

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/11/88 MECH/AD 05-6EE-	P-1524 2003-3		NASA DATA BASELINE NEW	[ ]
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADI 1524 +28V COI	-			
LEAD ANALYST:	A.D. MOI	NTGOMERY			
ASSESSMENT:					
CRITICAI FLIGH		REDUNDA	NCY SCRE	ens	CIL ITEM
HDW/FU	NC	A	В	С	
NASA [ 2 /1R IOA [ 3 /1R	] [	P ] P ]	[ P ] [ F ]	[ P ] [ P ]	[
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* CIL RETENTION	RATIONAL	E: (If a	pplicable	ADEQUATE INADEQUATE	[ ]
REMARKS: LOSS OF SECOND H APPARENT" DURING NECESSARY AIR PR	FLIGHT.	SECONE	FAILURE	ED TO BE "REA PRECLUDES O	ADILY

ASSESSME ASSESSME NASA FME	NТ	ID	):	1/11/ MECH/ 05-61	/ADF	)-1	.52! 3-:	5 3								LINE NEW	[		]	
SUBSYSTE MDAC ID: ITEM:				MECH, 1525 +28V																
LEAD ANA	LYS	T:	;	A.D.	MON	TC	MO	ERY												
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	FLIGHT							NDA	NC	Y	SCI	REE	NS	3				IL TE		
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APPARENT									) :	FA:	ILU	RE	D P	T( RE	O BI		EAI	II	NI TY	:NG

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/11/88 MECH/ADP-1526 05-6EE-2003-3		NASA DATA BASELINE NEW	-
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP/EPD&C 1526 +28V CONTACT #			
LEAD ANALYST:	A.D. MONTGOMER	Y		
ASSESSMENT:				
CRITICAL: FLIGHT	ITY REDUND.	ANCY SCREENS	5	CIL
HDW/FUR	-	В	С	ITEM
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* CIL RETENTION F	RATIONALE: (If a	applicable)		
		IN	ADEQUATE ADEQUATE	[ ]
REMARKS: LOSS OF SECOND HA APPARENT" DURING NECESSARY AIR PRE	FLIGHT. SECONI	CONSIDERED FAILURE PR	TO BE "REA	חדו.ע

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/11/88 MECH/ADP 05-6EE-2	7-1527 003-3			NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP 1527 +28V CON	•				
LEAD ANALYST:	A.D. MON	TGOMERY				
ASSESSMENT:						
CRITICAL: FLIGHT HDW/FUI	r	REDUNDA A	NCY B	SCREEN	s c	CIL ITEM
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* CIL RETENTION	RATIONALE	: (If a	ppli	·	ADEQUATE NADEQUATE	[ ]
REMARKS: LOSS OF SECOND HE APPARENT" DURING NECESSARY AIR PRO	FLIGHT.	SECOND	FAI	LURE P	RECLUDES O	

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SUBSYSTE MDAC ID: ITEM:				MECH/ 1528 CONTA		•		;								
LEAD ANA	LY	ST	:	A.D.	MO	NTO	GOMER	Y								
ASSESSME	ASSESSMENT: CRITICALITY															
		RI	EDUND	Aì	ICY	SCRE	EN	s		CII						
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* CIL RE	TE	NT:	ION 1	RATION	AL	Ε:	(If	aŗ	pl.	icabl	.e)	Δ	DEQUATE	r	1	
REMARKS:											I		DEQUATE		]	
LOSS OF																NC

NECESSARY AIR PRESSURE DATA FOR A SAFE DESCENT.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/11/88 MECH/ADP 05-6EE-2	2-1529 2003-3		NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADE 1529 CONTACT				
LEAD ANALYST:	A.D. MON	ntgomery			
ASSESSMENT:					
CRITICAL		REDUNDA	NCY SCREE	INS	CIL ITEM
FLIGH HDW/FU		A	В	С	
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* CIL RETENTION	RATIONAL	LE: (If	applicabl	e) ADEQUATE INADEQUATE	
REMARKS: LOSS OF SECOND APPARENT" DURIN NECESSARY AIR F	יוישיא דים אי	> F.L.1.131	I LUTION		EADILY OBTAINING

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ASSESSM	ENT	!:															
	CRITICALITY FLIGHT HDW/FUNC							JNDAN	CY	SCI	REEN	s		c	:IL		
	FLIGHT HDW/FUNC NASA [ 2 /1R ]					A			В			С		Ι	TE	M	
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SUBSYSTEM: MDAC ID: ITEM:	MECH/AD 1531 CONTACT				
LEAD ANALYST:	A.D. MC	NTGOMERY			
ASSESSMENT:					
CRITIC		REDUNDA	NCY SCREE	NS	CIL ITEM
FLIC HDW/1		A	В	C	
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SUBSYST MDAC ID ITEM:				MECH, 1565 INVE					TI	3						•		•	
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	MECH/ADF 1567 INVERTED											
LEAD ANALYST:	A.D. MON	ITGOM	ERY									
ASSESSMENT:												
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FLIGH HDW/FU		A		В			С					
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/12/88 MECH/ADE 05-6EE-2	2-1575 2004-1		NASA DATA BASELINE NEW	
MDAC ID:	MECH/ADI 1575 RELAY DI		2		
LEAD ANALYST:	A.D. MON	(TGOME)	RY		
ASSESSMENT:					
CRITICAL		REDUN	DANCY SCRE	ENS	CIL ITEM
FLIGH HDW/FU		A	В	С	
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SUBSYST MDAC ID ITEM:	EM:	:		MECH, 1581 RELAY		P/	EPD	&C													
LEAD AN	AL	(SI	?:	A.D.	MO	NT	GOMI	ERY													
ASSESSMI	ENT	r:																			
	CF			ITY T		R	EDUN	IDAI	NC	Y	SCR	EEN	s					L			
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SUBSYSTEM: MDAC ID: ITEM:	MECH/ADI 1583 RELAY	P/EPD&C			
LEAD ANALYST:	A.D. MO	NTGOMERY	!		
ASSESSMENT:					
CRITICAL		REDUNDA	ANCY SCREE	ens	CIL ITEM
FLIGH HDW/FU		A	В	С	
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SUBSYST MDAC ID ITEM:				MECH/ 1564 INVER				D&C D GAT	'E						-		•	
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SUBSYSTEM: MDAC ID: ITEM:	MECH/AD 1566 INVERTE							
LEAD ANALYST:	A.D. MO	NTGOMER	Y					
ASSESSMENT:								
CRITICAL FLIGH		REDUND	ANCY SO	CREENS		CI	L	
HDW/FU		A	В	С		11	LM	
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ASSESSMENT DATE ASSESSMENT ID: NASA FMEA #:		P-1572		NASA DA BASELI N	
SUBSYSTEM: MDAC ID: ITEM:	MECH/AD 1572 RELAY D				
LEAD ANALYST:	A.D. MO	NTGOMERY	7		
ASSESSMENT:					
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/13/88 MECH/AD 05-6EE-	P-1574		NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/AD 1574 RELAY D				
LEAD ANALYST:	A.D. MC	NTGOMER'	Ţ.		
ASSESSMENT:					
CRITICA		REDUNDA	ANCY SCREE	ens	CIL ITEM
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LEAD AN	ALY	ST	:	A.D.	MO	NT	'GOMI	ERY									
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LEAD ANA	LYST	:	A.D.	MON	TG	OME	RY											
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					RE	DUN	DAN	CY	SCR	EENS	5				CI:		ſ	
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LEAD AND	ALY	ST	:	A.D	. MONT	GOMI	ERY					
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NASA IOA	]	3 / 3 /	3 ] 3 ]	[	]	[	]	]	]	[ [ x	]	*
COMPARE	[	/	3	[	]	[	]	[	]	[ 14	]	
RECOMMEN	DAT	ION	s: (	(If di:	ffere	nt fr	om N	ASA)				
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/26/88 MECH/ADP- 05-6EE-20	1631 14-1				SA DATA: ASELINE NEW	[ x	]	
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP/ 1631 AMP	EPD&C							
LEAD ANALYST:	A.D. MONT	GOMERY	?						
ASSESSMENT:									
CRITICAL		EDUNDA	MCY	SCREE	NS		CIL		
FLIGH HDW/FU		<b>\</b>	В		С				
NASA [ 3 /3 IOA [ 3 /3	] [	]	[	]	[	]	[ x	] <b>*</b>	
COMPARE [ /	] [	]	[	3	[	1	[ N	]	
RECOMMENDATIONS	(If di	fferen	t fr	om NAS	SA)				
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* CIL RETENTION	RATIONALE	: (If	appl	icabl	n.	DEQUATE DEQUATE	[	]	
REMARKS: LOSS OF TRANSDU- OF REDUNDANT HA	CER DATA T RDWARE CON	O ADTA SIDERE	REN	DERS ADILY	ADTA DET	INEFFEC ECTABLE.	TIVE	. Los	S

ASSESSM ASSESSM NASA FM	ENT	ID:	MECH	/88  /ADP  EE-2	-163 014-	2 1		1	NASA DAT BASELIN NI	
SUBSYST MDAC ID ITEM:			MECH 1632 AMP	/ADP	/EPD	&C				•
LEAD AN	ALYS	T:	A.D.	MON	[GOM]	ERY				
ASSESSM	ENT:									
		TICAL FLIGH		F	EDUI	NDANCY	SCI	REENS		CIL
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REMARKS: LOSS OF	TRAN	SDUCE	<b>ኮ</b> በልሞ:	<b>λ</b> πο	A Dom:	. Drive	-	AD INAD	EQUATE	[ ]
OF REDUN	DANT	HARD	WARE	CONS	DERI	ED REA	DIL	ADTA Z DETE	INEFFEC CTABLE.	TIVE. LOSS

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/26/88 MECH/ADP- 05-6EE-20	-1633 )14 <b>-</b> 1				SA DATA: ASELINE NEW	[ [	]
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP/ 1633 AMP	EPD&C						
LEAD ANALYST:	A.D. MON	rgo <b>me</b> ry	!					
ASSESSMENT:								
CRITICAL		REDUNDA	ANCY	SCREE	ns		CIL	I
FLIGH HDW/FU		A	В		С			
NASA [ 3 /3 IOA [ 3 /3	] [	]	[ [	]	[	]	[ x	] <b>*</b>
COMPARE [ /	] [	]	[	]	[	1	[ N	1
RECOMMENDATIONS:	(If di	fferen	t fr	om NAS	SA)			
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* CIL RETENTION	RATIONALE	: (If	appl	icabl	n.	DEQUATE DEQUATE	[	]
REMARKS: LOSS OF TRANSDUCTOR OF REDUNDANT HAI	CER DATA T	O ADTA	REN	DERS ADILY	ADTA DET	INEFFEC ECTABLE.	TIVE	. Loss

ASSESSM ASSESSM NASA FM	ENT	' ]	D:	MECH	/88 /ADP- EE-20	-163 014-	14			1		DATA ELINE NEV	[	x	]	
SUBSYST MDAC ID ITEM:				1634	/ADP/ MISTE			OME'	ľER							
LEAD AN	ALY	ST	<b>':</b>	A.D.	rnom	GOM	ERY									
ASSESSM	ENT	:														
	CR		ICAL LIGH	ITY	R	EDU	NDAN	CY S	CREE	NS			CI	L		
		NC	A			В		c	:		IT	'EM	,			
NASA IOA	[	3 3	/3 /3	]	[ [	]	]	]		[	]		[	x	]	*
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RECOMMEN	IDA:	ric	ONS:	(If	dif	fere	ent f	rom	NAS/	A)						
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* CIL RE	TEN	T	ON I	RATION	ALE:	(If	app	lic	able)		DEON	ATE			,	
REMARKS: LOSS OF	TRA	NS.	DUCE	R DAT	' <b>А</b> ТО	זירו ע	ים כו גוי	NDE	DC 3.5	NA)	DEQU	ATE	Ĩ	j	]	
OF REDUN	DAN	T	HARI	WARE	CONS	DER	ED R	EAD	ILY D	T'A ETI	INE ECTA	FFECT BLE.	'IVI	£.	1	Loss

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/26/88 MECH/ADP- 05-6EE-20	1635 14 <b>-</b> 1				SA DATA: ASELINE NEW	[	]	
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP/ 1635 THERMISTE		MOME	TER					
LEAD ANALYST:	A.D. MONT	GOMERY							
ASSESSMENT:									
CRITICAL		EDUNDA	NCA	SCREE	NS		CIL		
FLIGH HDW/FU		•	В		С				
NASA [ 3 /3 IOA [ 3 /3	] [	]	[	]	[	]	[ x	]	*
COMPARE [ /	] [	]	(	]	[	]	[ N	]	
RECOMMENDATIONS:	(If dif	ferent	t fr	om NAS	SA)				
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* CIL RETENTION	RATIONALE:	(If a	appl	icable	Al	DEQUATE DEQUATE	[	]	
REMARKS: LOSS OF TRANSDUC OF REDUNDANT HAR	ER DATA TO	ADTA	REN	DERS A	ADTA DET	INEFFEC ECTABLE.	TIVE		Loss

ASSESSMI ASSESSMI NASA FMI	ENT	ID	TE:	ME	CH/A	DP.	-1636 014-1	<b>.</b>					DATA LINE NEW	] 3		]		
SUBSYSTE MDAC ID:				16	36	_	/EPD& FECT		ısısı	ror								
LEAD ANA	LYS	T:		<b>A.</b>	D. M	ON'	rgome	RY										
ASSESSME	ENT:																	
			CALI			I	REDUN	DANC	Y SC	REEN	S				IL TEN			
		/FUI	_		2	A		В		С			1	I E.I	1			
NASA IOA	3 / 3 /	/3 /3	]		[ [	] ]	[ [	]	]		]		[	x	]	*		
COMPARE	[	/	,	]		[	]	[	]	C		]		[	N	]		
RECOMMEN	DAT	ION	is:		(If	dif	fere	nt f	rom	NASA	)							
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REMARKS: LOSS OF OF REDUN	TRAI DAN'	nsd T H	UCE IARE	R [	DATA RE C	TO SMC	ADT	A RE	NDER EADI	S AD7	ra.	INE	TEC'	riv	Æ.	J	Loss	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/26/88 MECH/ADP-16 05-6EE-2014	337 3-1	NASA DATA: BASELINE NEW	[ x ]							
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP/EF 1637 FIELD EFFEC	PD&C CT TRANSISTOR									
LEAD ANALYST:	A.D. MONTGO	MERY									
ASSESSMENT:											
CRITICAL	CIL ITEM										
FLIGH HDW/FU		- 0									
NASA [ 3 /3 IOA [ 3 /1R	] [ P	] [ ] [ ] [ <b>F</b> ] [	] [ P ]	[ x ] *							
COMPARE [ /N	] [N	] [N]	[и]	[ N ]							
RECOMMENDATIONS:	(If diff	erent from NAS	A)								
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* CIL RETENTION	RATIONALE:		) ADEQUATE INADEQUATE	[ ]							
REMARKS: LOSS OF TRANSDUCTOR REDUNDANT HAI	CER DATA TO RDWARE CONSI	ADTA RENDERS A DERED READILY	DTA INEFFEC DETECTABLE.	TIVE. LOSS							

ASSESSM ASSESSM NASA FM	ENT	, ]	D:	1/26, MECH, 05-61	/ADP	-163 014-	8		1	NASA DAT BASELIN NE		
SUBSYST MDAC ID ITEM:	EM:			MECH/ 1638 CONTI								
LEAD AN	ALY	ST	<b>':</b>	A.D.	MON	GOM:	ERY					
ASSESSMI	ENT	:										
	CR		ICAL LIGH	ITY	F	EDUI	NDANCY	SCI	REENS		CIL	
	1		W/FU		A		E	3	c		ITEM	
NASA IOA	]	3 3	/3 /3	]	[	]	]	]	[	]	[	*
COMPARE	[		/	]	[	]	[	]	[	]	[ N ]	
RECOMMEN	IDA'I	ľI	ONS:	(If	dif	fere	nt fr	om N	'ASA)			
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LOSS OF OF REDUN	TRA DAN	NS T	DUCE HARD	R DATA	A TO	ADT IDER	A RENI ED REA	DERS	ADTA Y DETE	INEFFEC	TIVE.	Loss

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/26/88 MECH/ADP 05-6EE-2	-1639 014-1		NASA DATA: BASELINE NEW	[ x ]
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADF 1639 CONTROL				
LEAD ANALYST:	A.D. MON	ITGOMERY			
ASSESSMENT:					
CRITICAL	NS	CIL ITEM			
FLIGH HDW/FU		A	В	С	
NASA [ 3 /3 IOA [ 3 /1R	] [	p ]	[ ] [ F ]	[ ] [ P ]	[ x ] *
COMPARE [ /N	] [	и ]	[и]	[и]	[ N ]
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* CIL RETENTION	RATIONAL	E: (If a	applicable	e) ADEQUATE INADEQUATE	[ ]
REMARKS: LOSS OF TRANSDU OF REDUNDANT HA	CER DATA RDWARE CO	TO ADTA	RENDERS A	ADTA INEFFEC DETECTABLE	TIVE. LOSS

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SUBSYST MDAC ID ITEM:	EM:			MECI 1640 REAL	)				Z.							•	•		
LEAD AN	ALYS	ST	:	A.D.	MO	NT	GOM	ERY											
ASSESSMI	ENT:	:																	
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* CIL RE	TEN	TI	ON F	OITAS	NALE	:	(I1	app	)1 i	.ca	ble)								
REMARKS:												IAD	EQU	ATE ATE	į		]		
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ASSESSMENT ASSESSMENT NASA FMEA	ID:	MECH/ADP	-1641 014-1			TA: NE [ ] EW [ X ]
SUBSYSTEM: MDAC ID: ITEM:		MECH/ADF 1641 READ ONI		Υ		
LEAD ANALY	ST:	A.D. MON	TGOMERY	!		
ASSESSMENT	r:					
CI	RITICAL		NCY SCF	REENS	CIL ITEM	
	FLIGHT HDW/FU		A	В	С	
NASA IOA	[ 3 /3 [ 3 /1R	] [	p ]	[	[ ] [ P ]	[ x ] *
COMPARE	[ /N	] [	и ј	[ N ]	[ N ]	[ N ]
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* CIL RET	ENTION	RATIONAL	E: (If a	applical	ole) ADEQUAT INADEQUAT	_
REMARKS: LOSS OF TO	RANSDUC ANT HAR	ER DATA '	TO ADTA	RENDERS D READI	S ADTA INEFI LY DETECTABI	FECTIVE. LOSS LE.

ASSESSM ASSESSM NASA FM	ENT	II	):	1/26/ MECH/ 05-6E	ADP-		NEW [ X ]								
SUBSYST: MDAC ID ITEM:				MECH/ 1642 TRANS	•			P							
LEAD AN	ALYS	T:	;	A.D.	MONT	GOMER	Y								
ASSESSM	ENT:														
	CRI		CAL JIGH		R	EDUND	ANCY	SCRE	ENS		CIL	_			
	H		/FU	_	A		В		c	:	ITEM	(			
NASA IOA	[	3 3	/3 /3	]	[	]	[	]	[	]	[ [ x	] <b>*</b>			
COMPARE	[		/	]	C	]	[	]	C	1	[ N	]			
RECOMMEN	1DAT	'IO	NS:	(If	dif	feren	t fro	om NA	SA)						
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LOSS OF OF REDUN	TRA	ns T	DUCI HARI	ER DATA	A TO	ADTA DEREI	RENI REA	DERS .	ADTA DET	INEFFEC	TIVE.	Loss			

ASSESSMEN ASSESSMEN NASA FMEA	T II		1/26/8 MECH/A 05-6EE	DP-1	643 4-1				SA DATA: ASELINE NEW	[	x	]	
SUBSYSTEM MDAC ID: ITEM:	<b>[:</b>		MECH/A 1643 TRANSD			AMP	•						
LEAD ANAI	LYST	:	A.D. M	ONTG	OMERY								
ASSESSME	T:												
•	CRIT			RE	DUNDA	NCY	SCREE	:NS		CI	L EM	ĺ	
		LIGH W/FU		A		В		С					
NASA IOA	[ 3	/3 /3	]	[	]	[	]	[	]	[	x	]	*
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RECOMMEN	DATI	ons:	(If	dif	ferent	t fr	om NAS	5A)					
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* CIL RE	TENT	NOI	RATION	ALE:	(If	appl	icabl		DEQUATE	[		]	
REMARKS:	TOTO A N	ISDU(	CER DAT	A TO CONS	ADTA IDERE	REN D RE	DERS ADILY	ADTA DEI	INEFFEC	TI	VE	•	LOSS

ASSESSM NASA FM	ENT	·	D:	MECH	/ADP-	-1644 )14-1		IASA DATI BASELINI NEV		y ] x ]			
SUBSYST MDAC ID ITEM:				MECH, 1644 AMP	/ADP/	EPD&	С						
LEAD AN	ALY	ST	:	A.D.	MONT	GOME	RY						
ASSESSMI	ENT	:											
	CR		ICAL LIGH	ITY T	R	EDUN	DANCY	SCRE	EENS		CII		
			W/FU		A		В	ı	С		ITE	EM	
NASA IOA	[	3 3	/3 /3	]	[	]	[	]	[	]	[ ( x	]	*
COMPARE	(		/	]	[	]	[	]	Ĺ	1	[ N	r ]	
RECOMMEN	IDA!	ric	ONS:	(If	dif	ferer	nt fr	om NA	SA)				
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REMARKS:									INAI	DEQUATE DEQUATE	[	]	
LOSS OF OF REDUN	TRA DAN	it I	DUCE HARD	R DAT	A TO CONSI	ADTA DERE	RENI	DERS A	ADTA DETI	INEFFECT	CIVE	• ]	Loss

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SUBSYSTEMDAC ID:	M:		MEC 164 AMP		/E	PD&C	2										
LEAD ANA	LYST	:	A.D	. MON	TG	OME	RY										
ASSESSME	NT:																
	CRIT				RE	EDUNI	DANC	Y	SCF	REEN	S			CII	_		
	_	LIGH W/FU			A			В			С						
NASA IOA	[ 3	/3 /1R	]	]	P	]	[	F	]	] ]	P	]		[ :	X	] *	•
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RECOMMEN	IDATI	ONS:	(	(If di	Ĺf	fere	nt :	fr	om 1	NASA	.)						
	[ 3	/1F	2 ]	[	P	]	[	P	]	(	P	]	(A	[ DD/			re)
* CIL RI	ETENI	TION	RAT:	IONAL	Ε:	(If	ap)	pl	ica		A	DEQU DEQU				]	
REMARKS LOSS OF OF REDU	COTO A N	NSDUC LAH 1	CER I	DATA '	TO NS	ADT IDER	TAR RED	EN RE	DER ADI	S AI LY I	TA ET	INE	FFEC.	TIV	Έ.		Loss

ASSESSM ASSESSM NASA FM	EN'	T ]	D:	MEC	6/88 H/ADP- 6EE-20	-1646 )14-1	5 L			NASA DAT BASELIN NE	
SUBSYST MDAC ID ITEM:		:		164	H/ADP/ 6 NSISTO		iC				
LEAD AN	AL:	YSI	<b>:</b>	A.D	. MONI	GOME	ERY				
ASSESSM	EN?	r:									
	CI		ICAI	LITY	R	EDUN	DANCY	sc.	REENS		CIL ITEM
		HD	W/FU	JNC	A	•	F	3	(	C	1154
NASA IOA	[	3	/3 /3	]	[	]	[	]	]	]	[ ] * [ x ]
COMPARE	[		/	]	[	]	[	]	Ţ	]	[и]
RECOMMEN	IDA	TI	ons:	(1	If dif	fere	nt fr	om N	IASA)		
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REMARKS: LOSS OF		ANS	SDUC	ER DA	<b>ነ</b> ጥል ጥር	<b>ል ቦሃ</b> ሞ	A DEM	שמשת	INA	DEQUATE INEFFEC	į j
OF REDUN	DA	NT	HAR	DWY BE	CONG.	LUEDI	ed de	Y DIT	AUTA	TNEFFEC	TIVE. LOSS

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LEAD ANA	LYS	T:		A.D.	MON	TC	GOME	RY										
ASSESSME	NT:																	
CRITICALITY REDUNDAN FLIGHT										Y	SCRI	EENS	3			IL PEN	1	
	H	IDW	/FUI	1C		A				В			С					
NASA IOA	[	3 3	/3 /1R	]	]	P	]		[	F	]	( (	P	]	[	x	]	*
COMPARE	[		/N	]	[	N	]	1	[	N	]	[	N	1	C	N	]	
RECOMMEN	<b>I</b> ADI	'IC	ns:	(II)	f di	ifi	fere	nt	f	rc	om NA	ASA	)					
	[	3	/1R	]	[	P	]		[	P	]	[	P		DD,	/DI	] ELF	ETE)
* CIL RE		T	ON I	RATION	IALI	Ξ:	(If	aj	pp	<b>1</b> i	[cab]	•		DEQUATE DEQUATE	-		]	
REMARKS: LOSS OF OF REDUN	TRA															VE.	•	Loss

ASSESSMI NASA FMI	ENT I	D:	MECH/A	DP-			BASELIN		
SUBSYSTI MDAC ID: ITEM:			MECH/A 1648 AND GA		EPD&	С			
LEAD AND	ALYST	:	A.D. N	IONT	GOME	RY			
ASSESSMI	ENT:								
	CRIT	ICALI LIGHT		R	EDUN	DANCY	SCF	REENS	CIL ITEM
			1C	A		В		С	IIEM
NASA IOA	[ 3	/3 /1R	]	[ [ P	]	[ [ <b>F</b>	]	[ ] [ P ]	[ ] * [ x ]
COMPARE	[	/N	1	[ N	]	[ 14	]	[ N ]	[ N ]
RECOMME	NDATI	ons:	(If	dif	fere	nt fr	a mc	NASA)	
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	TRAN							S ADTA INEFFE	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/26/88 MECH/ADI 05-6EE-2	2-1649 2014-1		NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADI 1649 AND GATI				
LEAD ANALYST:	A.D. MO	NTGOMERY	•.		
ASSESSMENT:					
CRITICAL		REDUNDA	NCY SCREE	NS	CIL ITEM
FLIGH HDW/FU		A	В	С	
NASA [ 3 /3 IOA [ 3 /1F	] [	P ]	[	[ ] [ P ]	[ x ] *
COMPARE [ /N	) [	[ и ]	[ и ]	[и]	[ N ]
RECOMMENDATIONS	(If d	lifferen	t from NAS	SA)	
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* CIL RETENTION	RATIONA	LE: (If	applicable	e) ADEQUATE INADEQUATE	[ ]
REMARKS: LOSS OF TRANSDU OF REDUNDANT HA	CER DATA RDWARE C	TO ADTA	RENDERS OF READILY	ADTA INEFFEC	CTIVE. LOSS

ASSESSMENT DA ASSESSMENT ID NASA FMEA #:	: MECH/A	88 ADP-1650 3-2014-1		NASA DATA BASELINI NET	
SUBSYSTEM: MDAC ID: ITEM:	1650	DP/EPD&C			•
LEAD ANALYST:	A.D. M	ONTGOMER	Y		
ASSESSMENT:					
	CALITY IGHT	REDUND	ANCY SCRE	ENS	CIL
HDW,	/FUNC	A	В	С	ITEM
NASA [ 3 /	/3 ] /1R ]	[ ] [ P ]	[ ] [ F ]	[ ] [ P ]	[ ] * [ X ]
		[ N ]	[ N ]	[ א ]	[и]
RECOMMENDATION	s: (If d	lifferent	from NA	SA)	
[ 3 /	•		[ P ]	(A)	[ ] DD/DELETE)
* CIL RETENTIO	n rational	E: (If a	pplicable	<b>&gt;</b> )	·
REMARKS: LOSS OF TRANSD	IICPD Dama	<b></b>		ADEQUATE INADEQUATE	į
LOSS OF TRANSD OF REDUNDANT H	ARDWARE CO	TO ADTA NSIDERED	RENDERS A READILY	DTA INEFFECT DETECTABLE.	TIVE. LOSS

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/26/88 MECH/ADP 05-6EE-2	-1651 014-1		NASA DATA: BASELINE NEW	[ x ]
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP 1651 SERIAL S		ISTER		
LEAD ANALYST:	A.D. MON	TGOMERY			
ASSESSMENT:					
CRITICAL		REDUNDAN	CY SCREE	INS	CIL ITEM
FLIGH HDW/FU		A	В	C	
NASA [ 3 /3 IOA [ 3 /1R	] [	] [ P ] [	F ]	[ ] [P]	[ x ] *
COMPARE [ /N	] [	и ј (	[ N ]	[и]	[и]
RECOMMENDATIONS:	(If d	ifferent	from NA	SA)	
[ 3 /1F	2][	P ]	[ P ]	[ P ]	[ ] DD/DELETE)
* CIL RETENTION	RATIONAL	E: (If a	pplicabl	e) ADEQUATE INADEQUATE	[ ]
REMARKS: LOSS OF TRANSDUC OF REDUNDANT HAD	CER DATA RDWARE CO	TO ADTA NSIDERED	RENDERS READILY	ADTA INEFFEC DETECTABLE.	TIVE. LOSS

ASSESSMENT ID: MECH/ADP-1652 NASA FMEA #: 05-6EE-2014-1											DAT. ELIN NEI		]	
SUBSYSTI MDAC ID ITEM:			MECH 1652 BINA		P/EPD									
LEAD AND	ALYS'	T:	A.D.	MON	TGOM	ERY								
ASSESSMI	ENT:													
	1	FLIGH	_		REDUI	NDAN	CY	SCI	REENS	5		CIL ITEN	1	
	H	DW/FU	NC		A		В			С			•	
NASA IOA	[ :	3 /3 3 /1R	]	[	] P ]	]	F	]	]	] P ]		[ [ x	] * ]	
COMPARE	[	/N	]	[	и ј	[	N	]	[	и ј		[ и	]	
RECOMMEN	DATI	ONS:	(If	di	ffere	nt	fro	om N	IASA)					
	[ 3	/1R	]	[	P ]	[	P	]	[	P ]	(A	[ DD/DE	] LETE	)
* CIL RE	TENI	'ION E	RATION	ALE	: (If	ap	pli	.cab	le)					
REMARKS: LOSS OF OF REDUN	TRAN	SDUCE	ER DAT	ል ጥር	ייירו ג	ום ג	- Mr	FDC	IN	ADEQU ADEQU A INE	ATE	•	] ] LOS	ss
	~4 M T	ITUILL	MARC	CONS	T DEK	ED I	(LA	DIL	Y DE	<b>FECTA</b>	BLE.			

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/26/88 MECH/ADP-1653 05-6EE-2014-1		NASA DATA BASELINI NEV	
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP/EPD&C 1653 BINARY COUNTER			
LEAD ANALYST:	A.D. MONTGOMERY			
ASSESSMENT:				
CRITICAL: FLIGHT	r	NCY SCRE	ENS	CIL ITEM
HDW/FUI	NC A	В	С	
NASA [ 3 /3 IOA [ 3 /1R	] [ ] ] ]	[ ] [ <b>F</b> ]	[ ] [ P ]	[ ] * [ X ]
COMPARE [ /N	] [N]	[ N ]	[ N ]	[ N ]
RECOMMENDATIONS:	(If different	from NA	SA)	
[ 3 /1R	] [P]	[ P ]	_	[ ] DD/DELETE)
* CIL RETENTION F	RATIONALE: (If an	pplicable	<b>a</b> )	
REMARKS:	(-3 -3 <u>-</u>		ADEQUATE INADEQUATE	
LOSS OF TRANSDUCE OF REDUNDANT HARD	ER DATA TO ADTA F DWARE CONSIDERED	ENDERS A	ADTA INEFFEC DETECTABLE.	TIVE. LOSS

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/26/88 MECH/ADI 05-6EE-2	P-165 2014-	4		NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADI 1654 ADDRESS					
LEAD ANALYST:	A.D. MO	NTGOM	ERY			
ASSESSMENT:						
CRITICAL FLIGH		REDU	INDANCY	SCREEN	S	CIL ITEM
HDW/FU		A	В		С	
NASA [ 3 /3 IOA [ 3 /1R	] [	P ]	[ [ <b>F</b>	] [	P ]	[ x ] *
COMPARE [ /N	] [	<b>N</b> ]	[ N	] [	n ]	[ N ]
RECOMMENDATIONS:	(If d	liffeı	rent fr	om NASA	)	
[ 3 /1F	١ [	P ]	[ P	) [	P ] (A	[ ] ADD/DELETE)
* CIL RETENTION	RATIONAL	Æ: (:	If appl		ADEQUATE	[ ]
REMARKS: LOSS OF TRANSDUC OF REDUNDANT HAI	CER DATA	TO A	DTA REN ERED RE	DERS AD	TA INEFFEC	CTIVE. LOSS

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/26/88 MECH/ADP 05-6EE-2	-1655 014-1	NASA DATA: BASELINE NEW									
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP 1655 ADDRESSA		гсн									
LEAD ANALYST:	A.D. MON	TGOMERY										
ASSESSMENT:												
CRITICALITY REDUNDANCY SCREENS CIL ITEM												
FLIGHT HDW/FUNC A B C												
NASA [ 3 /3 IOA [ 3 /1F	][·	P ]	[ ] [ <b>F</b> ]	[ ] [ P ]	[ x ] *							
COMPARE [ /N	] [	N ]	[и]	[и]	[ N ]							
RECOMMENDATIONS:	(If d	ifferent	from NAS	SA)								
[ 3 /11	R ] [	P ]	[ P ]	[ P ]	[ ] ADD/DELETE)							
* CIL RETENTION	RATIONAL	E: (If a	ipplicabl	e) ADEQUATE INADEQUATE	[ ]							
REMARKS: LOSS OF TRANSDU- OF REDUNDANT HA												

ASSESSM ASSESSM NASA FM	ENT :	ID:	MECH	/AD	P-	165 14-	6						ASA DA Basela 1		[	x	]	
SUBSYST MDAC ID ITEM:			MECH 1656 AMP		<b>P/</b> :	EPD	&C											
LEAD AN	ALYSI	r:	A.D.	MOI	T	GOM	ERY											
ASSESSMI	ent:																	
		CICAL			RI	EDUI	NDA	N	CY	SCF	REEN	S			CI IT:	_		
	HE	W/FU	NC		A				В			C			11.	CM.		
NASA IOA	[ 3	/3 /1R	]	]	P	]		]	F	]	[	P	]		[ :	x :	]	*
COMPARE	[	/N	]	[	N	]		(	N	]	[	N	]		[ ]	N ]	)	
RECOMMEN	DATI	ons:	(If	di	ff	ere	nt	f	rc	m N	ASA)							
		/1R									[			(AD	[ D/[	) DEL	LE]	ľE)
* CIL RE	TENT	ION F	RATION	ALE	:	(If	ar	gc	li	cab.	le)							
REMARKS:											IN	ΆĽ	EQUATI	2	[ [	] ]		
LOSS OF OF REDUN	TRAN: DANT	SDUCE HARD	R DAT WARE	A TO	O SI	ADT DER	A F ED	E R	ND EA	ERS DIL	ADT Y DE	A TE	INEFFI	ECT	[VE	:.	I	oss

ASSESSMENT DATE: 1/26/88 ASSESSMENT ID: MECH/ADP-1657 NASA FMEA #: 05-6EE-2014-1														ASA D BASEL		[		]			
SUBSYSTI MDAC ID: ITEM:				MEC 165 AMP	<b>H/A</b> D 7	<b>P/</b> 1	EPD	&C													
LEAD ANA	ALYS	ST	:	A.D	. MO	NT	GOM	ERY													
ASSESSMI	ENT	:																			
	CR		ICAL:			R	EDU	NDA	N	CY	s	CREE	ENS	3				IL			
	I		LIGHT W/FUI			A				В				С			17	ren	1		
NASA IOA	[	3	/3 /1R	]	[	P	]		]	F	]		[	P	]		[	x	]	*	
COMPARE	[		/N	]	[	N	]		[	N	]		[	N	]		[	N	]		
RECOMMEN	VDA'	ΓΙC	ONS:	(:	If d	if	fer	ent	1	fro	om	NAS	A)	ı							
	[	3	/1R	]	[	P	]		[	P	]		[	P	]	(AI	[ \QC	/DF	] ELF	ETE	E)
* CIL RI	ETE	NT:	ION I	RATIO	ONAL	E:	(I	f a	pį	ol i	ica	able	:)								
													I		DEQUA' DEQUA'		[ [		]		
REMARKS:		ANS	SDUCE	ER DA	ATA '	го	ΑD	TA :	RI	ENE	ŒΕ	RS A	Dī	'A	INEF	FECT	ΓΙΊ	/E -		LC	SS
OF REDUN																					

ASSESSMENT DATE: 1/26/88 ASSESSMENT ID: MECH/ADP-1658 NASA FMEA #: 05-6EE-2014-1													ASA DATA BASELINI NEV	3		]			
SUBSYSTEM MDAC ID:	M:			165	ECH/ADP/EPD&C 558 WITCHING LADDER .D. MONTGOMERY														
LEAD ANA	LYS	T:		A.D	. M	ON	TG	OMER	RΥ										
ASSESSME	NT:																		
			CALI				RE	EDUNI	Al	1C	Y	SCREE	ENS	3			IL TE		
			/FUI				A			!	В			С				_	
NASA IOA	[	3	/3 /1R	]		] [	P	]		[ [ :	F	]	[	P	] ]	[	X	, ] ]	*
COMPARE	[		/N	]		C	N	]		[ ]	N	]	[	N	]		N	]	
RECOMMEN	DAT	'IC	NS:	(	If	đi	fí	ferer	nt	f	r	om NAS	SA)	)					
	[	3	/1R	]		[	P	]		[	P	]	[	P			D/D		ETE)
* CIL RE	TEN	TI	ON 1	RATI	ONA	LE	:	(If	aj	рp	<b>1</b> i	icable	∍)	Al	DEQUATE		[	]	
DEMARKS.													I	IA	DEQUATE	i		j	
REMARKS:																CT:	[VE	•	LOSS

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/26/88 MECH/ADP- 05-6EE-20	-1659 014-1	NASA DATA: BASELINE [ ] NEW [ X ]							
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP 1659 SWITCHIN									
LEAD ANALYST:	A.D. MON	TGOMERY								
ASSESSMENT:										
CRITICAL		REDUNDA	NCY SCREE	INS	CIL ITEM					
FLIGH HDW/FU		A	В	С						
NASA [ 3 /3 IOA [ 3 /1F	] [	P ]	[ ] [F]	[ ] [ P ]	[ x ] *					
COMPARE [ /N	j [	<b>n</b> ]	[и]	[ N ]	[ N ]					
RECOMMENDATIONS	(If d	ifferent	from NA	SA)						
		Р ]	[ P ]	[ P ]	[ ] ADD/DELETE)					
* CIL RETENTION	RATIONAL	E: (If a	applicabl	e) ADEQUATE INADEQUATE	[ ]					
REMARKS: LOSS OF TRANSDU OF REDUNDANT HA	CER DATA RDWARE CO	TO ADTA	RENDERS D READILY	ADTA INEFFECTABLE	CTIVE. LOSS					

SUBSYSTEM: MECH/ADP/EPD&C MDAC ID: 1660 ITEM: POLARITY DETECTOR  LEAD ANALYST: A.D. MONTGOMERY  ASSESSMENT:   CRITICALITY REDUNDANCY SCREENS CIL ITEM HDW/FUNC A B C  NASA [ 3 /3 ] [ ] [ ] [ ] [ ] * IOA [ 3 /1R ] [ P ] [ F ] [ P ] [ X ]  COMPARE [ /N ] [ N ] [ N ] [ N ] [ N ]  RECOMMENDATIONS: (If different from NASA)  [ 3 /1R ] [ P ] [ P ] [ P ] [ P ] [ ADD/DELETE)  * CIL RETENTION RATIONALE: (If applicable)  REMARKS: INADEQUATE [ ]  LOSS OF TRANSDUCER DATA TO ADTA RENDERS ADTA INEFFECTIVE. LOSS OF REDUNDANT HARDWARE CONSIDERED READILY DETECTABLE.	ASSESSM ASSESSM NASA FM	ENT	•	ID:	M	1/26/88 MECH/ADP-1660 D5-6EE-2014-1							NASA DATA: BASELINE [ ] NEW [ X ]								
CRITICALITY REDUNDANCY SCREENS CIL ITEM  FLIGHT HDW/FUNC A B C  NASA [ 3 /3 ] [ ] [ ] [ ] [ ] *  IOA [ 3 /1R ] [ P ] [ F ] [ P ] [ X ]  COMPARE [ /N ] [ N ] [ N ] [ N ] [ N ]  RECOMMENDATIONS: (If different from NASA)  [ 3 /1R ] [ P ] [ P ] [ P ] [ ] (ADD/DELETE)  * CIL RETENTION RATIONALE: (If applicable)  REMARKS: INADEQUATE [ ]  REMARKS: LOSS OF TRANSDUCER DATA TO ADMIN PROPERTY AND ADEQUATE [ ]	MDAC ID				1	660					'O'	R						•		•	
CRITICALITY REDUNDANCY SCREENS  FLIGHT HDW/FUNC A B C  NASA [ 3 /3 ] [ ] [ ] [ ] [ ] * IOA [ 3 /1R ] [ P ] [ F ] [ P ] [ X ]  COMPARE [ /N ] [ N ] [ N ] [ N ] [ N ]  RECOMMENDATIONS: (If different from NASA)  [ 3 /1R ] [ P ] [ P ] [ P ] [ ] (ADD/DELETE)  * CIL RETENTION RATIONALE: (If applicable)  REMARKS: LOSS OF TRANSDUCER DATA TO ADMANDED TO A DELAT DELATATIONALE TO A DELAT TO A DELAT DELATATIONALE.	LEAD AN	ALY	SI	?:	A	.D.	MO	NT	'GO	MERY	•										
FLIGHT HDW/FUNC A B C  NASA [3/3] [ ] [ ] [ ] [ ] *  IOA [3/1R] [ P ] [ F ] [ P ] [ X ]  COMPARE [ /N ] [ N ] [ N ] [ N ] [ N ]  RECOMMENDATIONS: (If different from NASA)  [3/1R] [ P ] [ P ] [ P ] [ ] (ADD/DELETE)  * CIL RETENTION RATIONALE: (If applicable)  REMARKS: LOSS OF TRANSDUCER DATA TO ADMA PROPERTY AND ADMATIONALE [ ]	ASSESSM	ENT	:																		
NASA [3/3] [] [] [] [] *  IOA [3/1R] [P] [F] [P] [X]  COMPARE [ /N ] [N] [N] [N] [N] [N]  RECOMMENDATIONS: (If different from NASA)  [3/1R] [P] [P] [P] [P] (ADD/DELETE)  * CIL RETENTION RATIONALE: (If applicable)  REMARKS: INADEQUATE []  LOSS OF TRANSDUCER DATA TO ADMA PROPERTY.			F	LIGH	T			R	EDI	UNDA	N	CY	sc	REEN	s				_	7	
IOA [3/1R] [P] [F] [P] [X]  COMPARE [/N] [N] [N] [N] [N]  RECOMMENDATIONS: (If different from NASA)  [3/1R] [P] [P] [P] [P] []  (ADD/DELETE)  * CIL RETENTION RATIONALE: (If applicable)  REMARKS:  INADEQUATE []  LOSS OF TRANSDUCER DATA TO ADMA DEVIATES AT TO ADMA DEV			HD	W/FU	NC			A				В			C			11	CM	•	
COMPARE [ /N ] [N] [N] [N] [N]  RECOMMENDATIONS: (If different from NASA)  [ 3 /1R ] [ P ] [ P ] [ P ] [ ] (ADD/DELETE)  * CIL RETENTION RATIONALE: (If applicable)  REMARKS:  LOSS OF TRANSDUCER DATA TO ADMA DEVIATE [ ]	NASA IOA	[	3	/3 /1R	]		]	P	]		[	F	]	[	P	]		[	x	]	*
[ 3 /1R ] [ P ] [ P ] [ P ] [ ADD/DELETE)  * CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ ] INADEQUATE [ ] LOSS OF TRANSDUCER DATA TO ADMA DEVENTE AND	COMPARE	[		/N	]		[	N	]	ĺ	[	N	]	[	N	]				•	
(ADD/DELETE)  * CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ ]  REMARKS:  INADEQUATE [ ]  LOSS OF TRANSDUCER DATA TO ADMA DEVELTE:	RECOMMEN	DAT	'IC	ONS:		(If	di	Ĺfí	fer	ent	f	rc	m 1	NASA)	)						
ADEQUATE [ ] REMARKS: INADEQUATE [ ] LOSS OF TRANSDUCER DATA TO ADMA DEVELOPE							•							-	P	]	(AI		ŒÎ	] LE:	ľE)
ADEQUATE [ ] REMARKS: INADEQUATE [ ] LOSS OF TRANSDUCER DATA TO ADMA DEVELOPE	* CIL RE	TEN	TI	ON F	TAS	ION	ALE	::	(I	f ap	q	li	cab	ole)							•
LOSS OF TRANSDUCER DATA TO ADTA RENDERS ADTA INEFFECTIVE. LOSS OF REDUNDANT HARDWARE CONSIDERED READILY DETECTABLE.	REMARKS:													IN	AD	EQUA!	ΓE	L	]	] 	
	LOSS OF 1	TRA DAN	ns T	DUCE HARD	R WA	DATA RE (	A T	o SI	AD DE	TAR RED	E R	ND: EA:	ERS DIL	ADT Y DE	A TE	INEF:	FECT LE.	IVE		I	oss

ASSESSME ASSESSME NASA FME	NT I	D:	MECH,	ECH/ADP-1661 BASELIN 5-6EE-2014-1 NE									[		]		
SUBSYSTE MDAC ID: ITEM:			MECH, 1661 POLA					₹	•								
LEAD ANA	LYST	:	A.D.	MON	TG	OME	RY										
ASSESSME	NT:																
		ICAL		RE	DUNI	DANG	CY	SCR	EENS	5			CI	IL PEM	r		
	_	LIGH W/FU	NC 1		A			В			С			11	, E.F.	L	
NASA IOA	[ 3	/3 /1R	]	[	P	]	]	F	]	[	P	]		[	x	]	*
COMPARE	[	/N	]	[	N	]	[	N	]	[	N	3		[	N	]	
RECOMMEN	IDATI	ons:	(I	f di	ifi	fere	nt i	fro	om N	IASA	)						
	[ 3	/1R	]	[	P	]	[	P	]	Į.	P	]	(A)	) DD,	/DI	] ELE	ETE)
* CIL RI	ETENT	NOI	RATIO	NALI	3:	(If	apı	pl:	icab			DEQUA DEQUA		[		]	
REMARKS: LOSS OF OF REDUI																	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/26/88 MECH/ADP- 05-6EE-20	-1662 014-1		NASA DATA BASELINE NEW						
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP/ 1662 CONTROL I									
LEAD ANALYST:	A.D. MONT	GOMERY								
ASSESSMENT:										
CRITICAL FLIGH		REDUNDAN	NCY SCRE	ens	CIL ITEM					
HDW/FU		1	В	С	TIEM					
NASA [ 3 /3 IOA [ 3 /1R	] [ ] [ P	) [	[ ] [ <b>F</b> ]	[ ] [ P ]	[					
COMPARE [ /N	] [ N	<b>i</b> ] (	[и]	[ N ]	[ N ]					
RECOMMENDATIONS:	(If dif	ferent	from NA	SA)						
[ 3 /1R	] [ P	· ] [	[ P ]	[ P ]	[ ] DD/DELETE)					
* CIL RETENTION	RATIONALE:	(If ap	plicable	e)						
ADEQUATE [ INADEQUATE [										
REMARKS: LOSS OF TRANSDUC OF REDUNDANT HAR	ER DATA TO	ADTA F	RENDERS A	ADTA INEFFECT	rive. Loss					

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/26/88 MECH/ADP-1663 05-6EE-2014-1	ECH/ADP-1863 5-6EE-2014-1 ECH/ADP/EPD&C 663								
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP/EPD& 1663 CONTROL LOGIC									
LEAD ANALYST:	A.D. MONTGOME	ERY								
ASSESSMENT:										
CRITICA		NDANCY SCRE	ENS	CIL ITEM						
FLIG HDW/F		В	С							
NASA [ 3 /3 IOA [ 3 /1		[ ] [ F ]	[ P ]	[ x ] *						
COMPARE [ /N	] [N]	[и]	[и]	[и]						
RECOMMENDATIONS	: (If differ	ent from NA	(SA)							
[ 3 /1		[ P ]	[ P ]	[ ] ADD/DELETE)						
* CIL RETENTION	RATIONALE: (1	f applicab	le) ADEQUATE INADEQUATE	[ ]						
REMARKS: LOSS OF TRANSD OF REDUNDANT H	ICER DATA TO AI ARDWARE CONSIDI	OTA RENDERS ERED READIL	ADTA INEFFE Y DETECTABLE	CTIVE. LOSS						

SUBSYSTEM: MECH/ADD/								DP-1664						ı	IASA DA BASELI N		[	x	]
SUBSYST MDAC ID ITEM:	EM:	:		1	ECH .664 EGI			EPE	0&C								•		,
LEAD AN	AL	'SI	<b>!:</b>	A	.D.	MO	NT	'GOM	ERY										
ASSESSMI	ENI	<b>:</b>																	
		F	'ICAI	T			R	EDU	NDAI	NC.	Y	SCI	REEN	s			CII ITI		
		HD	W/Ft	JNC			A			]	В			С			T 1.1	cm	
NASA IOA	[	3 3	/3 /1F	] } ]		[	P	]	[	1	F	]	]	P	]		[ ]	, ] <b>,</b> ]	*
COMPARE	(		/N	]		[	N	]	(	1	1	]	[	N	]			1]	
RECOMMEN	DA'	TI	ons:		(If	d:	if	fere	∍nt	fı	<b>:</b> 01	n N	IASA)	)					
	[	3	/1R	]		[	P	]	[	F	• :	]	[	P	_			] ELI	ETE)
* CIL RE	TEI	T]	ON :	RAT	'ION	ALE	:	(If	ap	pl	ic	ab	le)						•
REMARKS:										IN	AD	EQUATE EQUATE	į		]				
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ASSESSME ASSESSME NASA FME	NT ID:	MECH	/88 /ADP-1665 EE-2014-1						
SUBSYSTE MDAC ID: ITEM:	M:	1665	/ADP/EPD&C						
LEAD ANA	LYST:	A.D.	MONTGOMER	Y					
ASSESSME	NT:								
		CALITY	REDUND	ANCY SCRI	EENS	CIL ITEM			
		IGHT /FUNC	A	В	С				
NASA IOA	[ 3 ,	/3 ] /1R ]	[ ] [ P ]	[ ] [ F ]	[ ] [ P ]	[ ] * [ X ]			
COMPARE	[ ,	/N ]	[и]	[ N ]	[ N ]	[ N ]			
RECOMMEN	IDATIO	<b>NS: (</b> ]	[f differen	nt from N	ASA)				
	[ 3 ,	/1R ]	[ P ]	[ P ]	[ P ]	[ ] (ADD/DELETE)			
* CIL RI	CTENTI	ON RATIO	ONALE: (If	applicab	le) ADEQUA INADEQUA	•			
REMARKS: LOSS OF OF REDUI	TRANS	DUCER DA	ATA TO ADTA E CONSIDERA	A RENDERS ED READIL	ADTA INEF Y DETECTAB	FECTIVE. LOSS			

ASSESSME ASSESSME NASA FME	ENT ID	TE:	1/26/ MECH/ 05-6E	ADP-				NASA DAT BASELIN NE					
SUBSYSTE MDAC ID:			MECH/ 1666 DISCR	•			FER						
LEAD ANA	LYST:		<b>A.D.</b> 1	rnom	GOME	RY							
ASSESSME	NT:												
	CRITI FL	CALI		F	REDUN	DANCY	SCR	EENS	CIL ITEM				
	HDW	/FUN	IC	A	<b>L</b>	E	3	С					
NASA IOA	[ 3	/3 /1R	]	[ [ F	)	[ [ F	]	[ ] [ P ]	[ ] * [X]				
COMPARE	[	/N	]	[ N	]	[ N	]	[ N ]	[ N ]				
RECOMMEN	DATIO	NS:	(If	dif	fere	nt fr	om N	ASA)					
	[ 3	/1R	]	[ F	]	[ P	]	[ P ]	[ ] ADD/DELETE)				
* CIL RE	TENTI	ON R	ATION	ALE:	(If	appl	icab	le)					
REMARKS:								ADEQUATE INADEQUATE	į į				
LOSS OF OF REDUN	REMARKS:  OSS OF TRANSDUCER DATA TO ADTA RENDERS ADTA INEFFECTIVE. LOSS OF REDUNDANT HARDWARE CONSIDERED READILY DETECTABLE.												

ASSESSMEN ASSESSMEN NASA FMEA	T II		MECH	26/88 CH/ADP-1667 -6EE-2014-1 CH/ADP/EPD&C													
SUBSYSTEM MDAC ID: ITEM:	<b>4:</b>		1667					FF	ER								
LEAD ANA	Lyst	:	A.D	. MON	TG	OME	RY										
ASSESSME	NT:																
(	CRIT				RE	DUN	DANC	CY	SCF	REENS	3			CI			
		LIGH W/FU			A			В			С						
NASA IOA	[ 3	/3 /1R	]	[	P	]	[	F	]	[	P	] ]		[ :	X	) * ]	
COMPARE	[	/N	3	ſ	N	]	(	N	]	[	N	)		[ ]	N	]	
RECOMMEN	DATI	ons:	(	If di	Ĺfí	fere	nt :	fr	om I	NASA	)						
	[ 3	/1R	1	ι	P	3	[	P	]	[	P	]	(A)		DE	] LET	E)
* CIL RE	* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ ]  INADEQUATE [ ]																
REMARKS:	TRAN	SDUC	CER D	ATA '	TO NS:	ADI IDEF	TAR RED	EN RE	DER ADI	S AD	TA ET	INEI ECTAI	FEC	TIV	E.	I	Loss

ASSESSM ASSESSM NASA FM	ENT ]	D:	1/26 MECH 05-6	/ADP-		NASA DA BASELI N				
SUBSYST MDAC ID ITEM:			MECH, 1668 SERI			&C LEL CO	NVE	RTER		
LEAD AN	ALYST	<b>:</b> :	A.D.	MONT	'GOM	ERY				
ASSESSMI	ENT:									
	F	CICAL	r	R	EDUI	NDANCY	SCI	REENS		CIL ITEM
	HD	W/FU	NC	A		В			C	
NASA IOA	[ 3	/3 /1R	]	[ [ P	]	[ [ <b>F</b>	]	[ :	] P ]	[ ] * [ X ]
COMPARE	[	/N	]	[ N	]	[ 1	]	[ ]	<b>v</b> ]	[ N ]
RECOMMEN	IDATI	ons:	(If	dif	fere	ent fr	om N	IASA)		
	[ 3	/1R	]	[ P	]	[ P	]	[ ]		[ ] (ADD/DELETE)
* CIL RE	TENT	ION F	RATION	ALE:	(If	appl	icab	le)		
REMARKS:									ADEQUATI ADEQUATI	
LOSS OF OF REDUN	TRAN: DANT	SDUCE HARD	R DAT	'A TO CONS	ADT IDER	A RENI	ERS ADIL	ADTA Y DEI	INEFFI	ECTIVE. LOSS

ASSESSMEN ASSESSMEN NASA FMEA	ľΤ	ID	TE:	1/26/8 MECH/A 05-6EE	DP	-1 01	669 4-1	NEW [ X ]											
SUBSYSTEM MDAC ID:	1:			MECH/A 1669 SERIAL					С	ON	VEI	RTER	ł						
LEAD ANA	LYS	T:		A.D. M	(O)	ITG	OMER	Y											
ASSESSME	NT:	:																	
•	CRITICALITY FLIGHT HDW/FUNC							Al	1C	Y	SCI	REEN	IS				(L EN		
	1	<b>A</b> ,					В				С								
NASA IOA	[	3	/3 /1R	]	[	P	]		[ [	F	]	{ 	[	P	]	[	x	]	*
COMPARE	[		/N	1	(	N	]		[	N	]	1	[	N	1	[	N	]	
RECOMMEN	'DA'	TI	ons:	(If	d	if:	fere	nt	1	Ere	mc	NAS	A)						
			/1R		[	P	]		[	P	]		[	P	] (A	DD.	/D	ELJ	ETE)
* CIL RE	ETE	TK	ION	RATION	AL	E:	(If	a	.pj	ρl	ica				DEQUATE DEQUATE	[		]	
REMARKS: LOSS OF OF REDUM	OT.	LAN LNT	SDUC HAF	ER DAT	A CC	TO NS	ADT IDER	A EL	R	EN RE	DEF ADI	RS A	DI DI	ra ET	INEFFEC	TI.	VE	•	Loss

ASSESSM	ASSESSMENT DATE: 1/26/88 ASSESSMENT ID: MECH/ADP-1670 NASA FMEA #: 05-6EE-2014-1									NASA DATA: BASELINE [ ] NEW [ X ]								
SUBSYST MDAC ID ITEM:				MECH 1670 OSCI				)&C									-	
LEAD AN	ALY	ST	' <b>:</b>	A.D.	MO	NT	GOM	ERY										
ASSESSM	ENT	:																
	CRITICALITY FLIGHT HDW/FUNC							NDA	NC		sc	REEN				II.		
W) C)						A				В			С					
NASA IOA	[	3	/3 /1R	]	[	P	]	İ	[ [	F	]	[ [	P	]	[ [	x	]	*
COMPARE	[		/N	]	[	N	]	İ	[	N	]	[	N	]	[	N	]	
RECOMMEN	IDA:	ri	ONS:	(II	f d:	if1	fer	ent	f	rc	m l	NASA	)					
	[	3	/1R	]	[	P	]	(	•	P	]	[	P	_	] ADD	/D	ELI	ETE)
* CIL RE	TEN	T	ON F	NOITAS	IALI	E :	<b>(I</b> 1	f ar	p	li	cal	ble)						
REMARKS:												I	IAI	EQUATE EQUATE	Ì		]	
LOSS OF OF REDUN	TRA	it	DUCE HARD	R DAT	'A I	o Isi	AD1	ra r Red	E R	ND EA	ERS DII	S ADI	'A ETE	INEFFE CTABLE	CTI'	VE.	•	LOSS

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/ADI	CH/ADP-1871 -6EE-2014-1 NEW [ X ] CH/ADP/EPD&C									
SUBSYSTEM: MDAC ID: ITEM:	MECH/AD 1671 OSCILLA										
LEAD ANALYST:	A.D. MO	NTGOMERY									
ASSESSMENT:											
CRITICAL		REDUNDA	ANCY SCREE	ins	CIL ITEM						
FLIGH HDW/FU		A	В	С							
NASA [ 3 /3 IOA [ 3 /1F	] [	] P ]	[ ] [ F ]	[ ] [ P ]	[ x ] *						
COMPARE [ /N	) (	[ N ]	[ N ]	[ N ]	[ N ]						
RECOMMENDATIONS:	(If o	differen	t from NA	SA)							
[ 3 /1]		[ P ]	[ P ]	[ P ]	[ ] ADD/DELETE)						
* CIL RETENTION	RATIONA	LE: (If	applicabl	e) ADEQUATE INADEQUATE	[ ]						
REMARKS: LOSS OF TRANSDU OF REDUNDANT HA	CER DATA RDWARE C	TO ADTA	A RENDERS ED READILY	ADTA INEFFEC	TIVE. LOSS						

ASSESSMENT DAY ASSESSMENT ID: NASA FMEA #:	MECH/A	8 DP-1672 -2014-1		NASA DAT BASELIN NE	
SUBSYSTEM: MDAC ID: ITEM:	MECH/A 1672 2 MH2 (				•
LEAD ANALYST:	A.D. MO	NTGOMER	Y		
ASSESSMENT:					
CRITIC FLI	ALITY GHT	REDUNDA	ANCY SCRE	ENS	CIL
HDW/	FUNC	A	В	C	ITEM
NASA [ 3 / IOA [ 3 /	3 ] [ 1R ] [	p ]	[ ] [ <b>F</b> ]	[ ] [ P ]	[ ] * [ X ]
COMPARE [ /	и ј [	N ]	[ N ]	[ N ]	[ N ]
RECOMMENDATION	5: (If d	ifferent	from NA	SA)	
[ 3 /:	LR ] [	Рј	[ P ]		[ ] ADD/DELETE)
* CIL RETENTION	RATIONAL	E: (If a	pplicable	≘)	·
REMARKS:				ADEQUATE INADEQUATE	[ ]
LOSS OF TRANSDU OF REDUNDANT HA	ICER DATA 1 RDWARE CON	TO ADTA ISIDERED	RENDERS A READILY	ADTA INEFFEC DETECTABLE.	TIVE. LOSS

ASSESSMENT DATE: 1/26/88 ASSESSMENT ID: MECH/ADP-1673 NASA FMEA #: 05-6EE-2014-1												ASA DATA: BASELINE NEW	[		]	
SUBSYSTE MDAC ID: ITEM:			MECH/F 1673 2 MH2		•											
LEAD ANA	LYST	:	A.D. N	ION	TO	OMER	Y									
ASSESSME	ENT:															
		LIGH'	r			EDUND	AN		SCRE	ENS				IL CEM	ſ	
	HD	W/FUI	NC		A			В			С					
NASA IOA	[ 3 [ 3	/3 /1R	]	[	P	]	]	F	]	]	P	]	]	x	]	*
COMPARE	[	/N	]	[	N	]	[	N	1	[	N	]	[	N	]	
RECOMMEN	ITADI	ons:	(If	di	fí	feren	t:	fro	om NA	SA)	)					
	[ 3	/1R	]	[	P	]	[	P	]	[	P	] (A		/DE		ETE)
* CIL RI		ION 1	RATION	ALE	::	(If	ap)	pl:	icabl		IA IAV	DEQUATE DEQUATE	[		]	
REMARKS: LOSS OF OF REDUI	TRAN											INEFFECT	rI	VE.	ı	Loss

ASSESSMENT DA ASSESSMENT II NASA FMEA #:		ADP-1674		NASA DAT BASELIN NE	
SUBSYSTEM: MDAC ID: ITEM:	1674	ADP/EPD&C	!		
LEAD ANALYST:	A.D.	MONTGOMER	Y		
ASSESSMENT:					
	ICALITY LIGHT	REDUND	ANCY SCRE	EENS	CIL ITEM
	/FUNC	A	В	С	
NASA [ 3 IOA [ 3	/3 ] /1R ]	[ ] [ P ]	[ ] [ <b>F</b> ]	[ ] [ P ]	[ ] * [ x ]
COMPARE [	/N ]	[ N ]	[ N ]	[ N ]	[ N ]
RECOMMENDATIO	ONS: (If	differen	t from NA	ASA)	
[ 3	/1R ]	[ P ]	[ P ]		[ ] ADD/DELETE)
* CIL RETENT	ON RATION	ALE: (If	applicabl	.e) ADEQUATE	. [ ]
REMARKS: LOSS OF TRANS	SDUCER DAT	A TO ADTA	RENDERS	INADEQUATE	įį
OF REDUNDANT	HARDWARE	CONSIDERE	D READILY	DETECTABLE	•

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/26/88 MECH/AD 05-6EE-	P-1675 2014-1	NASA DATA: BASELINE [ ] NEW [ X ]							
SUBSYSTEM: MDAC ID: ITEM:	MECH/AD 1675 1 MH2 C									
LEAD ANALYST:	A.D. MO	NTGOMERY								
ASSESSMENT:										
CRITICAL		REDUNDA	NCY SCREE	ns	CIL ITEM					
FLIGH HDW/FU		A	В	С						
NASA [ 3 /3 IOA [ 3 /1F		[ ] [ P ]	[ ] [ F ]	[ ] [ P ]	[ x ] *					
COMPARE [ /N		[и]	[ N ]	[и]	[ N ]					
RECOMMENDATIONS	: (If	differen	t from NAS	SA)						
[ 3 /1		[ P ]	[ P ]	[ P ]	[ ] ADD/DELETE)					
* CIL RETENTION	RATIONA	LE: (If	applicabl	e) ADEQUATE INADEQUATE	[ ]					
REMARKS: LOSS OF TRANSDU OF REDUNDANT HA	CER DATA	TO ADTA	A RENDERS ED READILY	ADTA INEFFE DETECTABLE	CTIVE. LOSS					

SUBSYSTEM: MECH/AR							/88 /ADP-1676 EE-2014-1							NASA DATA: BASELINE [ ] NEW [ X ]					
SUBSYST MDAC II ITEM:				MECH/ 1676 500 M												-	•	-	
LEAD AN	ALY	ST	<b>:</b>	A.D.	MO	NT	'GOM	ERY	•										
ASSESSM	ENT	:																	
		F	ICAL LIGH W/FU			R A		NDA	N	CY B	SCR	EEN	s c			II. TE	_		
NASA										_			-						
IOA	[	3	/3 /1R	]	[	P	]	i	] [	F	]	[ [	P	]	[	х	]	*	
COMPARE	[		/N	]	[	N	]	1	[	N	]	[	N	]	ι	N	]		
RECOMMEN	IDA'I	CIC	ons:	(If	di	.f1	fere	nt	f	rc	m NA	ASA)	ı						
			/1R		[						]	•	P	]	(ADD)	/DI	] ELI	ETE	Ξ)
* CIL RE	TEN	ΤI	ON R	ATIONA	LE	:	(If	ap	q	li	cabl	e)							•
REMARKS:												IN	AD	EQUAT	E [		]		
LOSS OF OF REDUN	TRA DAN	ns T	DUCE HARD	R DATA WARE C	T ON	o SI	ADT/ DERI	AR ED	E R	ND: EA	ERS DILY	ADT DE	A TE	INEFF CTABL	ECTIVE.	Æ.		LO	SS

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/26/88 MECH/AD 05-6EE-	P-1677	NASA DATA: BASELINE [ ] NEW [ X ]									
SUBSYSTEM: MDAC ID: ITEM:	MECH/AD 1677 500 MH2	P/EPD&C										
LEAD ANALYST:	A.D. MC	NTGOMERY	Ĭ.									
ASSESSMENT:					OT!							
CRITICAL		REDUNDA	ANCY SCREI	ENS	CIL ITEM							
FLIGH HDW/FU		A	В	С								
NASA [ 3 /3 IOA [ 3 /1	] R ]	[ ] [P]	[ ] [ F ]	[ ] [ P ]	[ x ] *							
COMPARE [ /N	1	[и]	[ N ]	[ N ]	[ N ]							
RECOMMENDATIONS	: (If	differen	t from NA	SA)								
[ 3 /1		[ P ]	[ P ]	[ P ]	[ ] ADD/DELETE)							
* CIL RETENTION	RATION	ALE: (If	applicabl	.e) ADEQUATE INADEQUATE								
REMARKS: LOSS OF TRANSDU OF REDUNDANT HA	REMARKS: LOSS OF TRANSDUCER DATA TO ADTA RENDERS ADTA INEFFECTIVE. LOSS OF REDUNDANT HARDWARE CONSIDERED READILY DETECTABLE.											

ASSESSM	ASSESSMENT DATE: 1/26/88 ASSESSMENT ID: MECH/ADP-1678 VASA FMEA #: 05-6EE-2014-1									NASA DATA: BASELINE [ ] NEW [ X ]								
SUBSYST MDAC ID ITEM:		:		167	H/AI 8 NTEI		/EP[	)&C							-		•	
LEAD AN	AL	rsi	?:	A.D	. MC	rn(	'GOM	ERY										
ASSESSM	ENT	r:																
	CF	F	LIGH	_		R	EDU	NDAN	ICY	SC	REEN	s				[L		
		HD	W/FU	NC		A			В			С			17	EM		
NASA IOA	]	3 3	/3 /1R	]	]	P	]	]	F	]	[	P	]		[	х j	<b>*</b>	
COMPARE	[		/N	]	[	N	]	[	N	]	[	N	]			N ]		
RECOMMEN	IDA	TI	ONS:	(I	f d	if:	fere	∍nt	fr	om N	iasa)	ı						
	[	3	/1R	]	[	P	]	[	P	]	[	P	]	(A	[ DD/	] DEL	ETI	Ξ)
* CIL RE	TE	NT)	ON F	RATIO	NALI	2:	(If	apı	oli	.cab	le)			•	,			-,
REMARKS: LOSS OF OF REDUN	TR <i>i</i>	ANS	DUCE	ER DA	ጥል ጥ	·^	λ tvm	13 Dr	71.75		IN	AD	EQUA EQUA INEF	TE	[ [ [VIT	] ]	LC	ss
													- AMD	ه نالیه،				

ASSESSMENT DATE: ASSESSMENT ID:	MECH/AD	P-1679	BASELINE [ ]							
NASA FMEA #:	05-6EE-	2014-1		NEW	7 [ X ]					
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADI 1679 COUNTER	P/EPD&C								
LEAD ANALYST:	A.D. MOI	ntgomery	?							
ASSESSMENT:										
CRITICAL FLIGH		REDUNDA	NCY SCRE	ens	CIL ITEM					
HDW/FU	NC	A	В	С						
NASA [ 3 /3 IOA [ 3 /1R	] [	p ]	[ ] [ F ]	[ ] [ P ]	[ x ] *					
COMPARE [ /N	] [	и ј	[ N ]	[ N ]	[и]					
RECOMMENDATIONS:	(If d	ifferent	from NAS	5 <b>A</b> )						
[ 3 /1R	] [	P ]	[ P ]		[ ] ADD/DELETE)					
* CIL RETENTION	RATIONALI	E: (If a	pplicable	≥)						
REMARKS:				ADEQUATE INADEQUATE	[ ]					
LOSS OF TRANSDUC	ER DATA	TO ADTA	RENDERS A	ADTA INEFFEC	TIVE. LOSS					
OF REDUNDANT HAR	DWARE CO	NSIDERED	READILY	DETECTABLE.						

ASSESSMENT I ASSESSMENT I NASA FMEA #:	1680 14-1						SA DATA BASELINE NEW	[		]				
SUBSYSTEM: MDAC ID: ITEM:	EPD&C													
LEAD ANALYST	r:	A.D. M	ONTO	OMER	Z									
ASSESSMENT:														
	CICALI FLIGHT		RI	EDUNDA	ANC	Y	SCRE	ENS	3		C:		-	
HI			С		1.	ren	1							
NASA [ 3	3 /3 3 /1R	]	[ [ P	]	[	F	]	[	P	]	[	x	]	*
COMPARE [	/N	]	[ N	]	(	N	]	[	N	]	[	N	]	
RECOMMENDAT	cons:	(If	difi	feren	t 1	fro	om NA	SA	)					
[ :	3 /1R	]	[ P	]	[	P	]	[	P			/DI		TE)
* CIL RETENT	rion i	RATIONA	LE:	(If a	app	oli	icabl	•		DEQUATE	[		]	
REMARKS: LOSS OF TRAI								AD'	ΓA		•	VE.	]	LOSS

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/ADP 05-6EE-2	014-1		NASA DATA: BASELINE NEW	[ x ]
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP 1681 OR GATE	/EPD&C			
LEAD ANALYST:	A.D. MON	TGOMERY			
ASSESSMENT:					
CRITICAL		REDUNDA	NCY SCREE	NS	CIL ITEM
FLIGH HDW/FU		A	В	С	
NASA [ 3 /3 IOA [ 3 /1F	] [	p ]	[ ] [ <b>F</b> ]	[ ] [ P ]	* [ x ]
COMPARE [ /N	] [	и ј	[ N ]	[ N ]	[и]
RECOMMENDATIONS	(If d	ifferen	t from NAS	SA)	
		P ]	[ P ]	[ P ]	[ ] DD/DELETE)
* CIL RETENTION	RATIONAL	E: (If	applicable	e) ADEQUATE INADEQUATE	[ ]
REMARKS: LOSS OF TRANSDU OF REDUNDANT HA	CER DATA RDWARE CO	TO ADTA	RENDERS OF READILY	ADTA INEFFEC DETECTABLE.	CTIVE. LOSS

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/ADP-1682	BASELINE	NASA DATA: BASELINE [ ] NEW [ X ]						
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP/EPD&C 1682 SENSOR WINDOW GEN		•						
LEAD ANALYST:	A.D. MONTGOMERY								
ASSESSMENT:									
CRITICALI FLIGHT HDW/FUN		Y SCREENS B C	CIL ITEM						
NASA [ 3 /3 IOA [ 3 /1R	] [ ] [ ]	] [ ] F ] [ P ]	[ ] *						
COMPARE [ /N	_	и] [и]	[и]						
RECOMMENDATIONS:	(If different fr	com NASA)							
[ 3 /1R	, , , , ,		[ ] D/DELETE)						
* CIL RETENTION RA	ATIONALE: (If appl	icable) ADEQUATE	r ,						
REMARKS: LOSS OF TRANSDUCE! OF REDUNDANT HARDY	R DATA TO ADTA REN	INADEQUATE	• ,						

ASSESSMENT DATE: ASSESSMENT ID:		1602	NASA DAT	
	05-6EE-20		BASELIM NI	EW [X]
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP/ 1683 SENSOR WI	EPD&C NDOW GENERA	ATOR	
LEAD ANALYST:	A.D. MONT	GOMERY		
ASSESSMENT:				
CRITICAL FLIGH		EDUNDANCY :	SCREENS	CIL ITEM
HDW/FU	NC A	В	С	
NASA [ 3 /3 IOA [ 3 /1R	] [ P	] [ F	] [ ] ] [ P ]	[
COMPARE [ /N	] [ N	] [N]	] [ N ]	[ N ]
RECOMMENDATIONS:	(If dif	ferent from	n NASA)	
[ 3 /1R	] [P	] [P]		[ ] ADD/DELETE)
* CIL RETENTION	RATIONALE:	(If applic	cable)	
REMARKS:			ADEQUATE INADEQUATE	
LOSS OF TRANSDUC				
OF REDUNDANT HAR	DWARE CONS	IDERED REAL	DILY DETECTABLE	•

ASSESSMENT DATE: 1/26/88 ASSESSMENT ID: MECH/ADP-1684 NASA FMEA #: 05-6EE-2014-1													SA DATA BASELINE NEW	[	x	]	
SUBSYSTE MDAC ID:		MECH/ADP/EPD&C 1684 BUFFER															
LEAD ANA	LYST:	:	A.D. 1	101	VTC	OME	RY										
ASSESSMENT:																	
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM HDW/FUNC A B C																	
	HDV	/FU	NC		A				В			С					
NASA IOA	[ 3 [ 3	/3 /1R	]	[	P	]		[	F	]	[ [	P	]	]	x	]	*
COMPARE	נ	/N	1	[	N	]		[	N	]	[	N	]	[	N	]	
RECOMMEN	DATIC	ons:	(If	đ	if	fere	nt	1	fro	om N	IASA)	)					
	[ 3	/1R	1	[	P	]		[	P	3	[	P		DD,	/DI	] ELF	ETE)
* CIL RE	TENT:	ION :	RATION	ΑL	E:	(If	<b>a</b>	p	<b>,1</b> :	icak			DEQUATE DEQUATE	[		]	
LOSS OF	INADEQUATE [ ] REMARKS: LOSS OF TRANSDUCER DATA TO ADTA RENDERS ADTA INEFFECTIVE. LOSS OF REDUNDANT HARDWARE CONSIDERED READILY DETECTABLE.																

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/26/88 MECH/ADP 05-6EE-2	-1685 014-1		NASA DATA: BASELINE NEW	[ x ]
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP 1685 BUFFER	/EPD&C			
LEAD ANALYST:	A.D. MON	TGOMERY			
ASSESSMENT:					
CRITICAL		REDUNDA	NCY SCREE	NS	CIL ITEM
FLIGH HDW/FU		A	В	С	
NASA [ 3 /3 IOA [ 3 /11		p ]	[ ] [ F ]	[ ] [P]	[ x ] *
COMPARE [ /N	] [	и ј	[ א ]	[и]	[ N ]
RECOMMENDATIONS	: (If d	ifferent	from NAS	SA)	
[ 3 /1	R ] [	P ]	[ P ]	[ P ]	[ ] ADD/DELETE)
* CIL RETENTION	RATIONAL	E: (If a	applicable	e) ADEQUATE INADEQUATE	[ ]
REMARKS: LOSS OF TRANSDU OF REDUNDANT HA	CER DATA RDWARE CO	TO ADTA	RENDERS A	ADTA INEFFEC	CTIVE. LOSS

ASSESSME ASSESSME NASA FME	ENT ID:	MECI	5/88 H/ADP-168 SEE-2014-	6 1	nasa d Basel	
SUBSYSTE MDAC ID:		1686	£			,
			PUT CONTR			
LEAD ANA	LYST:	A.D.	MONTGOM	ERY		
ASSESSME	NT:					
•	CRITICA FLIC		REDUI	NDANCY SCE	REENS	CIL
		UNC	A	В	С	ITEM
NASA IOA	[ 3 /3 [ 3 /1	R ]	[ ] [ P ]	[ ] [F]	[ ] [ P ]	[ ] * [ X ]
COMPARE		]	[ N ]	[ N ]	[ N ]	[и]
RECOMMEND	DATIONS	: (I:	f differe	ent from N	ASA)	
	[ 3 /1	R ]	[ P ]	[ P ]	[ P ]	[ ] (ADD/DELETE)
* CIL RET	ENTION	RATION	WALE: (If	applicab	le)	,
REMARKS:					ADEQUAT: INADEQUAT:	E į j
OF REDUND	ANT HAI	CER DAI RDWARE	'A TO ADT	A RENDERS ED READILY	ADTA INEFF	ECTIVE. LOSS

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/26/88 MECH/ADI 05-6EE-2	P-1687 2014-1		NASA DATA BASELINE NEW							
SUBSYSTEM: MDAC ID: ITEM:	1687	OUTPUT CONTROL									
LEAD ANALYST:	A.D. MOI	NTGOMER!	¥								
ASSESSMENT:											
CRITICAL	CIL ITEM										
FLIGH HDW/FU		A	В	С							
NASA [ 3 /3 IOA [ 3 /1R	] [	P ]	[ ] [ <b>F</b> ]	[ ] [ P ]	[ x ] *						
COMPARE [ /N	] [	и ]	[ N ]	[и]	[ וו						
RECOMMENDATIONS:	(If d	ifferen	t from NAS	SA)							
[ 3 /1F	. ] [	P ]	[ P ]	[ P ]	[ ] ADD/DELETE)						
* CIL RETENTION	RATIONAL	E: (If	applicable	adequate	[ ]						
REMARKS: LOSS OF TRANSDUC OF REDUNDANT HAD	CER DATA RDWARE CO	TO ADTA	RENDERS A	ADTA INEFFEC	CTIVE. LOSS						

ASSESSMENT ID: MECH/ADP-1688 NASA FMEA #: 05-6EE-2014-1									ì	IASA DA' BASELII NI		x ]	
SUBSYSTI MDAC ID: ITEM:			MECH 1688 ENCO		/EPD&	кС							
LEAD ANA	LYSI	?:	A.D.	MON	TGOME	ERY							
ASSESSME	ENT:												
	F	CAL	T	:	REDUN	IDAN	CY	SCF	REENS		CII	_	
	HE	W/FU	NC	•	A		В		C	!			
NASA IOA	[ 3	/3 /1R	]	[	] P ]	]	F	]	[ [ P	]	[ 3	]	*
COMPARE	(	/N	]	[ ]	<b>4</b> ]	[	N	]	[ N	1	[ ]	ı j	
RECOMMEN	DATI	ons:	(I:	f di:	ffere	nt	fro	om N	IASA)				
	[ 3	/1R	]	[ ]	P ]	[	P	3	[ P	_	[ ADD/E	] ELE	ETE)
* CIL RE	TENT	ION I	RATIO	VALE:	(If	ap	pli	cab	le)				
REMARKS:									INA	DEQUATE DEQUATE	į	]	
LOSS OF OF REDUN	TRAN DANT	SDUCI HARI	ER DAT DWARE	CONS	ADT.	ARI EDI	eni Re <i>a</i>	ERS DIL	ADTA Y DET	INEFFE ECTABLE	CTIVE	•	LOSS

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/26/88 MECH/ADP 05-6EE-2	-1689 014-1		NASA DATA: BASELINE NEW	[ x ]					
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP 1689 ENCODER									
LEAD ANALYST:	A.D. MON	TGOMERY								
ASSESSMENT:										
CRITICAL		REDUNDA	NCY SCREE	NS	CIL ITEM					
FLIGH HDW/FU		A	В	С						
NASA [ 3 /3 IOA [ 3 /1R	] [	P ]	[ ] [ F ]	[ ] [ P ]	[ x ] *					
COMPARE [ /N	) [	N ]	[ N ]	[ N ]	[ N ]					
RECOMMENDATIONS:	(If d	ifferent	t from NAS	SA)						
[ 3 /1	? ] [	P ]	[ P ]	[ P ]	[ ] DD/DELETE)					
* CIL RETENTION	RATIONAL	E: (If	applicable	e) ADEQUATE INADEQUATE	[ ]					
REMARKS: LOSS OF TRANSDU OF REDUNDANT HA	CER DATA RDWARE CO	TO ADTA NSIDERE	RENDERS D READILY	ADTA INEFFEC DETECTABLE.	TIVE. LOSS					

ASSESSM	ASSESSMENT DATE: 1/26/88 ASSESSMENT ID: MECH/ADP-1690 NASA FMEA #: 05-6EE-2014-1 SUBSYSTEM: MECH/ADP/EPD&C										N	IASA D BASEL		[	x	]				
SUBSYSTI MDAC ID: ITEM:				MECH, 1690 AMP	/AC	P/	'EPD	&C												
LEAD ANA	ALY	ST	:	A.D.	MO	NT	GOM:	ERY	•											
ASSESSME	ENT	:																		
	CR		ICAL LIGH	ITY T		R	EDUI	NDA	N	CY	SCRE	EEN	S			CI				
	I		W/FUI			A				В			C			II	EM	ſ		
NASA IOA		3	/3 /1R	]	[	P	]		[ [	F	]	[	P	]		[	X	]	*	
COMPARE	[		/N	]	[	N	]		[	N	3	[	N	]		[	N	]		
RECOMMEN	DAI	CIC	ons:	(If	d:	Ĺ£1	fere	ent	f	ro	m NA	SA)	)							
	[	3	/1R	]	[	P	]		]	P	]	[	P	]	(AD	[ D/	DE	] LE	TE)	
* CIL RE	TEN	TI	ON R	ATION	ALE	E:	(If	aŗ	qq	li	cabl	e)							•	
REMARKS: LOSS OF 'OF REDUN	ľRA	NS	DUCE	R DATE	\ m	'O	ያ ሆሙ	λ T:	· -	ar n	PDG 1	IN	AE	EQUAT: EQUAT: INEFF	E	[ [ IVI	€.	] ]	Loss	
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ASSESSMEN ASSESSMEN NASA FMEA	T	ID	TE:	MECH/ADP/EPD&C 1691									[	x	]						
SUBSYSTEM MDAC ID:	<b>!:</b>			169	1691 AMP																
LEAD ANAI	LYS	T:		A.I	A.D. MONTGOMERY																
ASSESSMEN	T:	;																			
CRITICALITY FLIGHT								וטם:	ADA	NC	CY	SC	REE	NS	3				L LEM	1	
	ŀ		I/FU						В				С								
NASA IOA	[	3	/3 /1R	]		[	P	]		[	F	]		[ [	P	]		[	x	]	*
COMPARE	[		/N	]		[	N	]		[	N	]		ĺ	N	]		[	N	]	
RECOMMEN	DA'	TIC	ons:		(If	di	lf:	fer	en	t	fr	om	NAS	SA	)						
	[	3	/1R	2 ]		[	P	]		[	P	)		[	P	]	(	] DDA	<b>/</b> Dl	] ELE	ETE)
* CIL RE	TE	NT	ION	RAT	NOI	ΑL	E:	(1	f	ap	pl	ica	abl				UATE UATE			]	
REMARKS: LOSS OF OF REDUM		LAN NT	SDUC HAI	CER RDW/	DAT ARE	A CO	TO NS	AI	OTA ERE	D	EN RE	DEI AD	RS ILY	AD D	TA ET	IN ECT	EFFE ABLE	CTI	VE	•	LOSS

ASSESSM ASSESSM NASA FM	EN	T :	ID:	MEC	6/8 H/A 6EE	DP-	-169 )14-	2 1					N		DA' ELI N			x	]	
SUBSYST MDAC ID ITEM:		:		MEC 169 CPU	2	DP/	EPD)	&C											-	
LEAD AN	<b>AL</b>	YST	r:	A.D	. MC	INC	'GOM	ERY												
ASSESSM	EN'	r:																		
	CI	F	ICAL LIGH	T		R	EDUI	NDAI	NC	Y	SCI	REEN	S				CI	_	•	
		HI	W/FU	NC		A	ı			В			C			•	ĽT	EM	,	
NASA IOA	[	3	/3 /1R	]	[	P	]	{ [	:	F	]	[	P	]		1	•	X	]	*
COMPARE	[	•	/N	]	[	N	]	(		N	]	[	N	]		{	; 1	N	]	
RECOMMEN	IDA	TI	ons:	(:	If d	if:	fere	ent	f	ro	m N	IASA)	}							
			/1R	_	[			[					P	]	(.	] ADD	)/I	DEI	] LE'	TE)
* CIL RE	TE	NT	ION 1	RATIO	NAL	E:	(If	ар	p.	li	cab	le)								
REMARKS:													AC	EQU	ATE ATE	Ĩ		]	) ]	
LOSS OF OF REDUN	TR DA	AN: NT	SDUCI HARI	ER DA DWARE	TA (	ro Vs i	ADT.	A R	EN PF	ID:	ERS	ADT	A	INE	FFE	CTI	VF	P .	]	Loss

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/26/88 MECH/ADP- 05-6EE-20	NASA DATA: BASELINE NEW	[ x ]		
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP/ 1693 CPU	EPD&C			
LEAD ANALYST:	A.D. MONT	GOMERY			
ASSESSMENT:					
CRITICAL		REDUNDAN	ICY SCREE	NS	CIL
FLIGH HDW/FU		A	В	С	
NASA [ 3 /3 IOA [ 3 /1	] [	] [ P ] [	[	[ ] [ P ]	[ x ] *
COMPARE [ /N	] []	и ]	[ N ]	[ N ]	[ N ]
RECOMMENDATIONS	(If di	fferent	from NAS	SA)	
[ 3 /1	R ] [	Р]	[ P ]	[ P ] (A	[ ] DD/DELETE)
* CIL RETENTION	RATIONALE	: (If a	pplicable	ADEQUATE INADEQUATE	[ ]
REMARKS: LOSS OF TRANSDU OF REDUNDANT HA	CER DATA I RDWARE CON	O ADTA	RENDERS A	ADTA INEFFEC DETECTABLE.	TIVE. LOSS

ASSESSMENT DATE: 1/26/88 ASSESSMENT ID: MECH/ADP-1694 NASA FMEA #: 05-6EE-2014-1 SUBSYSTEM: MECH/ADP/EPD&C										ì	NASA Basi	DAT ELIN NE	<b>E</b> [	x	] : ]				
SUBSYST MDAC ID ITEM:		:		MECH 1694 SELE													-		
LEAD AN	AL:	rsı	1:	A.D.	MO	NT	GON	ŒRY											
ASSESSM	EN'	r:																	
	CI	F	ICAL LIGH	T				NDAN	CY	S	CREEN	S				I L CEI	ч		
		HD	W/FU	NC		A			В	}		C					•		
NASA IOA		3	/3 /1R	]	[	P	]	]	F	]	]	P	]		[	x	]	*	
COMPARE	[		/N	1	ĺ	N	]	[	N	]	[	N	]			N			
RECOMMEN	IDA	TI	ons:	(II	f di	.fi	fer	ent	fr	om	NASA	)							
	[	3	/1R	]	[	P	]	[	P	]	(	P	]	(A	[ .DD/	DE	] LE	TE)	
* CIL RE	TE	NT:	ION 1	RATION	IALE	:	(I:	f ap	<b>21</b> :	ica	able)								
REMARKS: LOSS OF	TR	ANS	SDUCI	ER DAT	יים גלי	0	A DVI	וכו גלי	2377	<b>\</b> E\	II	VAC	DEQUA DEQUA	ATE	[ [ TIV	E.	]	Loss	•
OF REDUN	DA)	N'I'	HARI	DWARE	CON	SI	DEF	RED I	₹E	/D]	LTA DE	ETE	CTAI	BLE.			•		,

ASSESSMENT DATE: 1/26/88 ASSESSMENT ID: MECH/ADP-1695 NASA FMEA #: 05-6EE-2014-1 SUBSYSTEM: MECH/ADP/EPD&C													ASA DATA BASELINE NEW	[		]	
SUBSYST MDAC II ITEM:				MECH/ 1695 SELEC													
LEAD A	VAL:	YST	:	A.D. 1	MON	T	SOME	RY									
ASSESSI	ÆN'	r:															
	C		'ICAL	ITY		RI	EDUNI	MAC	CY	SCR	EENS	3			IL PEN	•	
		_		NC		A			В			C		1.	r et	1	
NASI IOI	A A	[ 3 [ 3	/3 /1R	]	[	P	]	[	F	]	[ [	P	]	[	x	]	*
COMPARI	€ :	[	/N	]	[	N	]	[	N	]	[	N	]	[	N	]	
RECOMMI	ENDA	ATI	ons:	(If	di	fí	fere	nt :	fro	om N	ASA)	ı					
		[ 3	/1R	1	[	P	]	[	P	]	[	P		,DD,	/DI	] ELF	ETE)
* CIL F	RETI	ENT	ION I	RATION	ALE	:	(If	ap	<b>p1</b> :	lcab	le)						
DEMA DIZZ	•										I		DEQUATE DEQUATE	]		]	
REMARKS LOSS OF		RAN	SDUCI	ER DATA	А Т	0	ADTA	A R	ENI	ERS	ADT	CA.	INEFFEC	TIV	Æ.		Loss
													ECTABLE.				

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:			NASA DATA BASELINE NEW		
	MECH/ADP 1696 READ ONL	•	КĀ		
LEAD ANALYST:	A.D. MON	TGOMERY	ľ		
ASSESSMENT:					
CRITICAL FLIGH HDW/FU	r	REDUNDA A	ANCY SCRE	ENS C	CIL ITEM
NASA [ 3 /3 IOA [ 3 /1R	] [	P ]	[ ] [ <b>F</b> ]	[ ] [ P ]	[ x ] *
COMPARE [ /N	] [	и ]	[ N ]	[ N ]	[ N ]
RECOMMENDATIONS:	(If di	fferent	from NA	SA)	
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* CIL RETENTION REMARKS:	RATIONALE	: (If a	applicable	e) ADEQUATE INADEQUATE	• •
LOSS OF TRANSDUC OF REDUNDANT HAR					

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/26/88 MECH/ADP 05-6EE-2	-1697 014-1		NASA DATA: BASELINE NEW	[ x ]
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP 1697 ROM	/EPD&C			
LEAD ANALYST:	A.D. MON	ITGOMERY			
ASSESSMENT:					
CRITICAL		REDUNDA	NCY SCREE	ns	CIL ITEM
FLIGH HDW/FU		A	В	С	
NASA [ 3 /3 IOA [ 3 /1F	] [	P ]	[ ] [ F ]	[ ] [ P ]	[ x ] *
COMPARE [ /N	] [	и ј	[ N ]	[и]	[и]
RECOMMENDATIONS	(If d	ifferent	t from NAS	SA)	
[ 3 /11	_	P ]	[ P ]	[ P ]	[ ] ADD/DELETE)
* CIL RETENTION	RATIONAL	E: (If	applicable	e) ADEQUATE INADEQUATE	[ ]
REMARKS: LOSS OF TRANSDU OF REDUNDANT HA	CER DATA RDWARE CO	TO ADTA	RENDERS D READILY	ADTA INEFFEC	CTIVE. LOSS

ASSESSM NASA FM	ENT	I	D:	MECH	/AI	P-	·169	8					N	IASA DA' BASELII NI			] ]	
SUBSYST MDAC ID ITEM:				MECH 1698 READ					R	Y								
LEAD AND	ALY	ST	:	A.D.	MO	NT	GOM	ERY	•									
ASSESSMI	ENT	:																
		F	LIGH			R	EDU	NDA	N	CY	SCR	REEN	s			[L		
	F	HDV	/FU	NC		A				В			С		1.1	CEM		
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COMPARE	[		/N	]	[	N	]		[	N	]	[	N	]	C	N j		
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	[	3	/1R	]	ĺ	P	]	İ	[	P	]	[	P		[ ADD/	] DEL	ETE	)
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REMARKS:												IN	Αſ	EQUATE EQUATE	Ĩ	]		
LOSS OF OF REDUN	TRA DAN	ns T	DUCE HARD	R DAT.	A I	'O ISI	ADT DER	A F ED	R.	ND EA	ERS DIL	ADT Y DE	A TE	INEFFEC	CTIV	Ε.	LO	58

ASSESSMEN' ASSESSMEN' NASA FMEA	r ID:	1/26/88 MECH/ADF 05-6EE-2	9-1699 8014-1		BASELINE NEW	
SUBSYSTEM MDAC ID: ITEM:	:	MECH/ADE 1699 READ/WRI	P/EPD&C	RΥ		
LEAD ANAL	YST:	A.D. MON	ITGOMERY			
ASSESSMEN	T:					
С	RITICAL		REDUNDA	NCY SCREI	ens	CIL ITEM
	FLIGHT HDW/FU	_	A	В	С	
NASA IOA	[ 3 /3 [ 3 /1R	] [	p ]	[ ] [ <b>F</b> ]	[ ] [ P ]	[ x ] *
COMPARE	[ /N	] [	N ]	[ א ]	[и]	[ N ]
RECOMMEND	ATIONS:	(If d	ifferent	from NA	SA)	
	[ 3 /1R	] [	Р ]	[ P ]		[ ] .DD/DELETE)
* CIL RET	TENTION	RATIONAL	E: (If a	pplicabl	e) ADEQUATE INADEQUATE	
REMARKS: LOSS OF TO	TRANSDUC DANT HAR	ER DATA	TO ADTA NSIDERED	RENDERS READILY	ADTA INEFFEC DETECTABLE.	CTIVE. LOSS

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SUBSYSTI MDAC ID: ITEM:				10	ECH/ 501 VITCI		-		С											
LEAD AND	ALY	ST	:	A.	.D. 1	MO	NT	GOME	RY											
ASSESSMI	ENT	:																		
		F	ICAL LIGH W/FU	r	_		RI A	EDUN	DAI	ICY B		SCRE	EN				CI II	L EN		
			•				-			_				С						
NASA IOA	[	3	/1R /1R	]		[	P P	]	[	F	, :	]	[	P P	]		[	x	]	*
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RECOMMEN	IDA!	ri	ons:		(If	d:	ifí	fere	nt	fr	or	n NAS	SA)	)						
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DEMADUC.													I		PEQUAT		[		]	

**REMARKS:** 

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/22/88 MECH/ADP-10 05-6EE-201	603 5 <b>-</b> 1	NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP/E 1603 LATCH RELA			
LEAD ANALYST:	A.D. MONTG	OMERY		
ASSESSMENT:  CRITICAL FLIGH		DUNDANCY SCRE		CIL ITEM
HDW/FU		В	С	
NASA [ 3 /1F IOA [ 3 /1F	[ P	] [ P ] ] [ F ]	[ P ] [ P ]	[ X ]
COMPARE [ /	] [	] [N]	[ ]	[ N ]
RECOMMENDATIONS	(If dif	ferent from NA	ASA)	
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* CIL RETENTION	RATIONALE:	(If applicab	le) ADEQUATE INADEQUATE	

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SUBSYST MDAC ID ITEM:	EM:			MECH 1600 SWIT	)								[	<b></b> ,
LEAD AN	ALY	SI	<b>!:</b>											
ASSESSMI	ENT	:												
		F	LIGH			R	EDU	NDAN	CY	S	CREENS		CII	
	I	HD	W/FU	NC		A			В		c	<b>!</b>	ITH	<b>EM</b>
NASA IOA	[	3	/1R /3	]	[	P	]	]	F	]	[ P	]	[ }	( ] *
COMPARE	[		/N	]	[	N	]	[	N	]	[ N	]	נא	,
RECOMMEN	DAT	ΊC	ONS:	(II	f di	f	fere	ent :	fro	)m	NASA)			
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REMARKS:											AI INAI	EQUATE EQUATE	í	]
LOSS OF F CAUSING I REDUNDANT B.	CEDI COSS H	UN S AR	DANT OF A DWAR	HARD DTAS E WAS	WAR DAT RE	E A AD	COU DUR ILY	LD A ING APP	LL FL AR	OW IG EN	HEATER HT. RE T HOWEV	TO DAN VIEW SI	MAGE ING	PROBE LOSS OF SCREEN

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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/ADP-1595	NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP/EPD&C 1595 REMOTE POWER CONT	TROLLER	
LEAD ANALYST:	A.D. MONTGOMERY		
ASSESSMENT:			
CRITICAL FLIGH	<del></del>	CY SCREENS	CIL ITEM
HDW/FU		ВС	
NASA [ 3 /1R IOA [ 3 /1R	[ P ] [ E ] [ P ] [	P ] [ P ] F ] [ P ]	[ x ] *
COMPARE [ /	] [ ] [	и ј [ ]	[ N ]
RECOMMENDATIONS:	(If different i	from NASA)	
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* CIL RETENTION	RATIONALE: (If app	plicable) ADEQUATE INADEQUATE	
REMARKS: LOSS OF REDUNDANDURING FLIGHT, T	T HARDWARE DETERMINEREFORE DOES NOT	INED TO BE NOT READ PASS SCREEN B.	ILY APPARENT

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/21/88 MECH/ADF 05-6EE-2	9-1597 2016-1		NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:		POWER CON	TROLLER		
LEAD ANALYST:	A.D. MOI	NTGOMERY			
ASSESSMENT:					
CRITICA		REDUNDAN	ICY SCREE	ns	CIL ITEM
FLIG HDW/F		A	В	С	
NASA [ 3 /1 IOA [ 3 /1	R ] [ R ] [	P ] P ]	[ P ] [ F ]	[ P ] [ P ]	[ x ] *
COMPARE [ /	] [	]	[и]	[ ]	[ N ]
RECOMMENDATIONS	: (If d	different	from NA	SA)	
[ 3 /1		[ P ]	[ F ]	[ P ]	[ A ] ADD/DELETE)
* CIL RETENTION	N RATIONA	LE: (If a	pplicabl	e) ADEQUATE INADEQUATE	[ ]
REMARKS: LOSS OF REDUND DURING FLIGHT,	ANT HARDW THEREFOR	ARE DETER	RMINED TO OT PASS S	BE NOT REA SCREEN B.	DILY APPARENT

ASSESSM ASSESSM NASA FM	LEN.	r ]	[D:		MECH	/A	DP.	-159 016-	9 1					NA B	SA Base	LIN	'A: IE  W		]	
SUBSYST MDAC ID ITEM:	EM:	3			MECH, 1599 REMO					TR	OL	LER						-	-	
LEAD AN	ALY	ST	<b>!:</b>		A.D.	MC	ľNC	'GOMI	ERY											
ASSESSMI	ENT	<b>!:</b>																		
	CR		ICA LIG		TY		R	EDUN	IDAN	CY	sc	CREE	NS					ΙL		
		HD	W/F	UN	С		A			В			(	2			I	TEI	M	
NASA IOA	[	3	/1: /1:	R R	]	[	P P	]	[	P F	]		[ I	? ]	<b>)</b>		[	x	) <i>x</i>	ŧ
COMPARE	[		/	•		[		]		N			[	]				N	-	
RECOMMEN	'DA'	ric	ONS:	3	(If	d:	if	fere	nt f	rc		NASZ	A)							
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* CIL RE	TEN	TI	ON	RA	TION	ALE	E :	(If	app	li	cal	ble)					·			,
REMARKS: LOSS OF I	RED	UN	DAN	TI.	Hà Dhu	מ גע	100	DEM				I	A NA	DE(	QUAT QUAT F RI	ΓE	LTA [		] ] PPAI	RENT
														_						

	1/21/88 MECH/ADP-15 05-6EE-2016		N	NASA DATA: BASELINE NEW		; ] ; ]	
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP/EI 1594 REMOTE POWI		LLER				
LEAD ANALYST:	A.D. MONTGO	OMERY					
ASSESSMENT:							
CRITICAL FLIGH		DUNDANCY	SCREENS		CII		
HDW/FU		В	(	C			
NASA [ 3 /1R IOA [ 3 /3	] [ P	] [ F	] [ 1	P ]	[ ]	x ] *	
COMPARE [ /N	] [ N	] [ N	] [ ]	N ]	[ ]	N ]	
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* CIL RETENTION	RATIONALE:	(If appl:	į	ADEQUATE	<u></u>	]	
REMARKS:			IN	ADEQUATE	[	J	

ASSESSMENT DATE ASSESSMENT ID: NASA FMEA #:		DP-1				ASA DATA: BASELINE NEW	[	]
SUBSYSTEM: MDAC ID: ITEM:	MECH/AI 1596 REMOTE			<b>TROLLER</b>				
LEAD ANALYST:	A.D. MO	ONTGO	OMERY					
ASSESSMENT:								
CRITICA FLIG HDW/F	HT	REI A	DUNDAN	CY SCRE	ENS C		CIL	1
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COMPARE [ /N	] [	[ N ]	] [	и ј	[ 11	]	[ N	]
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* CIL RETENTION	RATIONAL	ĿE: (	(If app	plicable	AI	DEQUATE	<u>[</u>	j
REMARKS:					TNAI	DEQUATE	L	J

ASSESSMENT ASSESSMENT NASA FMEA	r ID:	1/21/88 MECH/AI 05-6EE-	)P-1598	i !		NASA DATA: BASELINE NEW	[ x ]	
SUBSYSTEM MDAC ID:	:	MECH/AI 1598 REMOTE		CONTRO	LLER			
LEAD ANAL	YST:	A.D. M	ONTGOMI	ERY				
ASSESSMEN	RITICAL		REDU	NDANCY	SCREEN	ıs	CIL ITEM	
	FLIGH HDW/FU		A	В		С		
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SUBSYST MDAC ID ITEM:		,		MECH 1589 AND			'EP	D&C									•	•	•	
LEAD AN	ALY	ST	!:	A.D.	MC	NT	GO1	MERY												
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* CIL RE	<b>TEN</b>	ΤI	ON R	ATION	ALE	:	(I:	f ap	p	li	ca	ble)				•	•			,
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SUBSYSTEM MDAC ID:		MECH/AI 1591 TIME DI												
LEAD ANAI	LYST:	A.D. MO	ONTG	OMERY										
ASSESSMEN	NT:													
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ASSESSM	ASSESSMENT DATE: 1/19/88 ASSESSMENT ID: MECH/ADP-1593 NASA FMEA #: 05-6EE-2017-1 SUBSYSTEM: MECH/ADP/EPD&C											N		DATA ELINI NEV	] 2	X	] [ ]	
SUBSYST MDAC ID ITEM:	'EM :			MECH, 1593 SOLII					ER									
LEAD AN	ALY	ST	!:	A.D.	MO	NT	GOM	ŒRY										
ASSESSM	ENT	:																
	CR		ICAL LIGH	ITY T		R	EDU	NDAN	CY	S	CREEN	s				IL		
	;		W/FU	_		A			В			С			I.	ΓEI	M	
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RECOMMEN	IDA'	ric	ONS:	(If	d:	ifí	fer	ent 1	fro	m	NASA	)						
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* CIL RE	TEN	T]	ON F	RATION	ALE	€:	(Ii	f app	li	ca	ble)							
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APPARENT	L	UK.	TMG	r DIGH!	ι,	ТН	ERE	EFORE	N	OT	PASS	IN	G S	CREEN	В	•	-	

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SUBSYSTEM MDAC ID:	i:			158	:H/AI   8   GA!			PD&	С												
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LEAD ANA	Lyst:		A.D.	MO	NT	GOME	ERY									
ASSESSME	NT:															
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SUBSYSTEM MDAC ID:	1:			159	CH/A 92 LID					ER											
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REMARKS	:																				

ASSESS ASSESS NASA I	ME ME	INI INI A	' [ ' I #:	DATE: 2/17/88 ID: MECH/SDM-9500 #: 05-6EF-2003-1 MECH/SDM/EPD&C											ASA DAT BASELIN NE			]		
SUBSYS MDAC I ITEM:	TE D:	M:				9500				&C .KER/	SW	ITO	СН							
LEAD A	NA	LY	ST	:	J	н.ј.	LO	WE	RY											
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* CIL I	REI	'EN	T]	ON	RA	TION	ALE	:	(T1	f 'anr	n] i	cal	hlal			·			•	
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REMARKS	S:												IN	ΑD	EQUATE	į	••	]		
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/SDM-9	MECH/SDM-9500A BASELING 05-6EF-2003-2 NEW MECH/SDM/EPD&C									
SUBSYSTEM: MDAC ID: ITEM:	MECH/SDM/E 9500 CIRCUIT BR		тсн								
LEAD ANALYST:	H.J. LOWER	RY									
ASSESSMENT:											
CRITICAL		EDUNDANCY	SCREENS	5	CIL	I					
FLIGH HDW/FU		F	3	С							
NASA [ 2 /1R IOA [ 3 /1R	] [ P	] [ ]	? ] [	P ] P ]	[ X	] <b>*</b>					
COMPARE [ N /	] [	] [	] [	]	[ N	1					
RECOMMENDATIONS:	(If dif	ferent f	rom NASA	)							
	] [			1	[ DD/D	] ELETE)					
* CIL RETENTION	RATIONALE:	(If app	licable) I	ADEQUATE NADEQUATE	[ X	]					
REMARKS: IOA AGREES WITH THE DISCREPANCY AS AN ISSUE UNT	DEMERN NA	SA FMEA/	CIL AND E SUBSYS	IOA ANALYS TEM MANAGE	ES A	RE MARKED					

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SUBSYST MDAC ID ITEM:			MECH/ 16515 FUSE,	5											
LEAD AN	ALYST	<b>:</b> :	W. SI	AUG	HT.	ER									
ASSESSMI	ENT:														
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	HD	W/FU	NC		A		]	В		С		•	. L.	•	
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* CIL RE REMARKS: IOA AGRE					: (	If a	.pp]	licab			QUATE QUATE	[	x	]	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/19/88 MECH/PBR-65 05-6EG-2010	507 )-1	NASA DATA: BASELINE NEW	[ x ]
SUBSYSTEM: MDAC ID: ITEM:	MECH/PBR/EI 6507 RADIATOR CO	PD&C ONTROL SWITCH (	S5/S7)	
LEAD ANALYST:	W.T. SLAUG	HTER		
ASSESSMENT:				
CRITICAL		DUNDANCY SCREEN	IS	CIL
FLIGH HDW/FU		В	С	
		] [ P ] ] [ ]	[ P ] [ ]	[ X ] *
COMPARE [ N /N			[и]	[ N ]
RECOMMENDATIONS	(If diff	erent from NAS	A)	
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* CIL RETENTION	RATIONALE:	(If applicable	ADEQUATE	[ x ]
REMARKS: IOA AGREES WITH 6509, 6510.	THE FMEA/C	IL. ALSO SEE F	RELATED MDAC	: ID's 6508,

ASSESSMI ASSESSMI NASA FMI	ENT	II	ATE:	MI	/19/8 ECH/P 5-6EG	BR:	-650 010-	)8 ·1					SA DATA ASELINI NEV	
SUBSYSTI MDAC ID: ITEM:				65	ECH/P 508 LDIAT				. S	WIT	СН (	S5/S	37)	
LEAD ANA	ALYS	T:		W.	<b>T.</b> S	LAU	JGHT	ER						
ASSESSME	ENT:													
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RECOMMEN	DAT	IOI	NS:		(If d	if	fere	ent :	fro	om N	'ASA)			
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* CIL RE	TEN'	ric	ON R	AT:	IONAL	E:	(If	apı	pli	.cab		ADE(	QUATE QUATE	[ X ]
REMARKS: IOA AGRE 6509, 65	ES V	riv	H T	HE	FMEA	/C:	CL.	ALS	0	SEE				ID's 6507,

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/PDA	5-6EG-2010-1 NEW [ X ]								
SUBSYSTEM: MDAC ID: ITEM:	MECH/PBF 6509 RADIATOR		L SWITCH	(S5/S7)						
LEAD ANALYST:	W.T. SL	AUGHTER								
ASSESSMENT:					_					
CRITICAL		REDUNDA	NCY SCREI	ens	CIL ITEM					
FLIGH HDW/FU		A	В	C						
NASA [ 2 /11 IOA [ 3 /11	R ] [	P ] P ]	[ P ] [ P ]	[ P ] [ P ]	[ X ] *					
COMPARE [ N /	_	1	[ ]	[ ]	[ и ]					
RECOMMENDATIONS	: (If d	lifferen	t from NA	SA)						
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* CIL RETENTION	RATIONA	LE: (If	applicabl	.e) ADEQUATE INADEQUATE						
REMARKS: IOA AGREES WITH 6508, 6510.	THE FME	A/CIL.	ALSO SEE	RELATED MDA	C ID's 6507,					

ASSESSM ASSESSM NASA FM	EN	T :	ID:	2, MI 05	/19/88 ECH/PB 5-6EG-	R-65 2010	510A 9-1			NAS BA	A DAT SELIN NE	A: E [ ] W [ X ]	
SUBSYST MDAC ID ITEM:	EM :	:		65	ECH/PB 510 ADIATO			_ SW]	ІТСН (	(S5/S		,	
LEAD AN	AL:	YSI	?:	W.	T. SL	AUGH	TER						
ASSESSM	ENT	r:											
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REMARKS:									IN	ADEQ	UATE	[ X ]	
IOA AGRE 6508, 650	ES 09.	WI	TH :	THE	FMEA/	CIL.	ALS	o se	E REL	ATED	MDAC	ID's 65	07,

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:		R-6509 1010-3			NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/PBF 6509 RADIATOR	•		ITCH (S	55/S7)	
LEAD ANALYST:	W.T. SL	UGHTER				
ASSESSMENT:						
CRITICAL FLIGH		REDUND	ANCY	SCREENS	5	CIL ITEM
HDW/FU		A	В		С	
NASA [ 2 /1R IOA [ 3 /1R	] [	P ] P ]	[ P [ P	] [	P ] P ]	[ X ] * [ ]
COMPARE [ N /	] [	1	ι	] [	]	[ N ]
RECOMMENDATIONS:	(If d	ifferer	nt fro	m NASA	)	
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REMARKS: IOA AGREES WITH	THE FMEA	/CIL.	SEE F	RELATED	MDAC ID 6	510.

ASSESSMENT DA ASSESSMENT ID NASA FMEA #:	,, -	BR-6510		nasa da Baseli N	
SUBSYSTEM: MDAC ID: ITEM:	6510	BR/EPD&	C ROL SWITC	H (S5/S7)	
LEAD ANALYST:	W.T. SI	LAUGHTE	R		
ASSESSMENT:					
FL	CALITY IGHT /FUNC	REDUNI A	DANCY SCR	EENS C	CIL ITEM
NASA [ 2 , IOA [ 3 ,	/1R ] [	P ]	[ P ] [ ]	[ P ] [ ]	[ X ] *
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IOA AGREES WIT	THE FMEA	/CIL.	SEE RELAT	ED MDAC ID	6510.

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SUBSYSTEM MDAC ID: ITEM:	:				165	CH/P 516 D MC			2,	3,	, 4	1											
LEAD ANAI	YS	T:			W.	SLA	UG	HI	ER														
ASSESSMEN	T:																						
C	CRI				ΤY			RI	EDUN	IDAI	NC.	Y	SC	REE	NS	,				CI	L EM	1	
	F		JG V					A				В				С							
NASA IOA	[	2 2	/1 /1	R R	]		[	P P	]		[	P P	]		[ [	P P	]			[	X	]	*
COMPARE	[		/								[									[	N	]	
RECOMMEN	DA'	ΓI	ONS	<b>:</b>		(If	đ	if	fer	ent	f	r	om	NAS	A)	)							
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REMARKS: IOA AGRE	ES	W	ITI	H	THI	E FM	EΑ	./C	IL.														

REPORT DATE 03/07/88 C-887

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/04/88 MECH/KBD- 05-6EH-56	4517 000-1	NASA DATA BASELINI NEV	A: E [ ] W [ X ]
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD/1 4517 +28V CONT	EPD&C ACT #1		•
LEAD ANALYST:	A.D. MONTO	GOMERY		
ASSESSMENT:				
CRITICAL] FLIGHT	TY RI	EDUNDANCY S	CREENS	CIL
HDW/FUN	IC A	В	С	ITEM
NASA [ 2 /1R IOA [ 3 /2R	] [ P ] [ P	] [ P ]	[ P ] [ P ]	[ X ] * [ X ]
COMPARE [ N /N			[ ]	[ ]
RECOMMENDATIONS:	(If diff	erent from	NASA)	
				[ ] DD/DELETE)
* CIL RETENTION R	ATIONALE:	(If application	able)	
REMARKS:			ADEQUATE INADEQUATE	[ ]
SINGLE FAILURE OF VEHICLE/MISSION. CONTROL SWTICH FA PASSING ALL SCREEN	ILURE CONS			

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/KBD-4	NEW							
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD/E 4519 +28V CONTA								
LEAD ANALYST:	A.D. MONTO	OMERY							
ASSESSMENT:									
CRITICAL		EDUNDANC	Y SCREEN	S	CIL ITEM				
FLIGH HDW/FU			В	С					
NASA [ 2 /1F IOA [ 3 /2F	[ P	] [ ] [	P ] [	P ] P ]	[ X ] *				
COMPARE [ N /N				1	[ ]				
RECOMMENDATIONS	(If dif	ferent :	from NAS	A)					
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* CIL RETENTION	RATIONALE:	(If ap		) ADEQUATE INADEQUATE					
REMARKS: SINGLE FAILURE VEHICLE/MISSION CONTROL SWTICH	OF SWITCH F . SECOND F FAILURE COM	OLE/CON AILURE ISIDERED	TACT SET COULD CA READILY	WOULD NOT USE LOSS OF APPARENT	CAUSE LOSS OF F DEPLOY/STOW DURING FLIGHT,				

PASSING ALL SCREENS.

ASSESSMEN ASSESSMEN NASA FMEA	T [ T ] *:	DATE:	2/04, MECH, 05-61	/88 /KE EH-	BD- -56	452: 000-	l -1				Ŋ	iasa Base	DATA LINE NEW	] 3	x	]		
SUBSYSTEM MDAC ID: ITEM:	:		MECH/ 4521 +28V	CO	D/ NT	EPD&	kC #3											
LEAD ANALY	YST	<b>:</b>	A.D.	MO	NT	GOME	ERY											
ASSESSMENT	r:																	
CI	RIT F	ICAL:	ITY T		R	EDUN	DAN	CY	SC	REE	NS			CI				
			1C		A			В			С			IJ	EM	1		
NASA [ IOA [	2	/1R /2R	]	[	P P	]	[	P F	]		[ P	]		[	X X	] :	*	
COMPARE [	N	/N	J			]			]		[	]						
RECOMMENDA	TIC	ONS:	(If	di	lff	ere	nt f	rc	om 1	NASA	١)							
			J									]	(AI	[ DD/		] LET	E)	
* CIL RETE	NTI	ON R	ATION	ALE	:	(If	app	li	cab	ole)								
REMARKS:											NAC	EQUA EQUA	TE	Ĩ		] ]		
SINGLE FAIR VEHICLE/MIS CONTROL. S FLIGHT, PAS	IWE	TCH :	FAILUE	EΕ	CO	NSTE	CONT RE C DERE	AC OU D	T S LD REA	ET CAU DIL	WOU SE Y A	LD N LOSS PPAR	OT C OF ENT	AUS DEI DUI	SE PLO RIN	LO YG	SS 01 STOW	E

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/04/88 MECH/KBD- 05-6EH-56	-4523 5000 <b>-</b> 1			NASA DATA: BASELINE NEW	[ x ]
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD/ 4523 +28V CONT					
LEAD ANALYST:	A.D. MON	<b>IGOMERY</b>				
ASSESSMENT:						CTT
CRITICAL		REDUNDA	NCY	SCREEN	S	CIL ITEM
FLIGH HDW/FU		A	В		С	
NASA [ 2 /1F IOA [ 3 /2F	R ] [	P ] P ]	[ P [ F	] [	P ] P ]	[ X ] * [ X ]
COMPARE [ N /N	] [	1	[ N	]	]	[ ]
RECOMMENDATIONS	: (If di	fferent	t fro	om NAS	A)	
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* CIL RETENTION	RATIONAL	E: (If	appl:		) ADEQUATE INADEQUATE	[ ]
REMARKS:	on cutmou	POT.E /C	ОИТА	CT SET	WOULD NOT	CAUSE LOSS OF

SINGLE FAILURE OF SWITCH POLE/CONTACT SET WOULD NOT CAUSE LOSS OF VEHICLE/MISSION. SECOND FAILURE COULD CAUSE LOSS OF DEPLOY/STOW CONTROL SWTICH FAILURE CONSIDERED READILY APPARENT DURING FLIGHT, PASSING ALL SCREENS.

ASSESSMENT DATE: 2/04/88 ASSESSMENT ID: MECH/KBD-4525 NASA FMEA #: 05-6EH-56000-1								NASA DATA: BASELINE [ ] NEW [ X ]													
SUBSYST MDAC ID ITEM:	EM:	:		4	525			EPD ACT			•						•		J		
LEAD AN	ALY	SI	?:	A	.D.	MO	NT	GOM	ERY												
ASSESSM	ENT	<b>':</b>																			
	CR	IT F	'ICAI 'LIGH	LITY IT	Č		R	EDUI	NDAN	CY	S	CREE	NS	}			CI	-			
	•		W/FU				A			В				С			II	EM	ĺ		
NASA IOA	[	2 3	/1R /2R	l ]		]	P P	]	[	P F	]		[ [	P P	]		[	X X	]	*	
COMPARE			/N			[		]					[						_		
RECOMMEN	DA'	CIC	ons:		(If	di	fí	fere	nt i	fro	m	NAS	A)								
			/1R									i		P		AD	[ D/1		] Le	TE)	)
* CIL RE	TEN	T]	ON 1	RAT:	IONA	LE	:	(If	app	li	.ca	ble)	)								
REMARKS:			_									1	.NA	LD.	EQUATE EQUATE		ſ	]			
SINGLE FAUTURE SINGLE FAUTURE SINGLE FAUTURE SINGLE FAUTURE SINGLE FAUTURE FAU	SWT	IC	H FA	TII	IRE	H D CO	PO FA NS	LE/O I LUI I DEI	CONT RE C RED	AC OU RE	T S LD AD]	SET CAU LLY	WC SE AP	)U]     P/	LD NOT LOSS O ARENT	C. F   DUI	AUS DEF RIN	E LO	L( Y/ FI	OSS /SI	OF OW HT,

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/KBD-4	NEW 05-6EH-56000-1							
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD/E 4527 +28V CONTA								
LEAD ANALYST:	A.D. MONTO	OMERY							
ASSESSMENT:									
CRITICAL		EDUNDANC	Y SCREEN	S	CIL ITEM				
FLIGH HDW/FU			В	С					
NASA [ 2 /1F IOA [ 3 /2F	[ P	] [	P ] [ F ] [	P ] P ]	[ X ] *				
COMPARE [ N /N		] [	и] (	]	[ ]				
RECOMMENDATIONS	(If dif	ferent :	from NAS	A)					
	R ] [ F	י ן ני	P ]	[ P ] (A	[ ] ADD/DELETE)				
* CIL RETENTION	RATIONALE	(If ap		) ADEQUATE INADEQUATE	[ ]				
REMARKS: SINGLE FAILURE VEHICLE/MISSION CONTROL SWTICH	OF SWITCH I	POLE/CON FAILURE NSIDERED	TACT SET COULD CA READILY	WOULD NOT USE LOSS OF APPARENT F	CAUSE LOSS OF DEPLOY/STOW DURING FLIGHT,				

PASSING ALL SCREENS.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/04/88 MECH/KB 05-6EH-	D-4529 56000-1							
	MECH/KB 4529 +28V COI				•				
LEAD ANALYST:									
ASSESSMENT:									
CRITICALI FLIGHT	TY	REDUNDAN	CY SCRE	EENS	CIL				
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SINGLE FAILURE OF VEHICLE/MISSION. CONTROL SWTICH FAI PASSING ALL SCREEN	LURE COM	POLE/CONT FAILURE C ISIDERED	ACT SET OULD CA READILY	WOULD NOT C USE LOSS OF APPARENT DU	AUSE LOSS OF DEPLOY/STOW RING FLIGHT,				

ASSESSMEN ASSESSMEN NASA FMEA	T	ID	:	ME	04/8 CH/K -6EH	טם.	-4! 60	531 00-1	L						SA DATA SELINI NEV				) ]		
SUBSYSTEM MDAC ID:		•		45	CH/K 31 8V C																
LEAD ANA	LYS	T:		A.	D. M	ION	TG	OME	RY												
ASSESSME	T.															_		_			
(	CRI		CAL		Ž.		RE	DUN	DAN	CY	S	CREEN	S				T	L EM			
	F		LIGH N/FU				A			В			(	С							
NASA IOA	[	2	/1F /2F	2 ]		[	P P	]	[	P	]	(		P P	]	1	[	X X	]	*	
COMPARE	[	N	/N	]		[		]	[	N	1	1	•		]		(		]		
RECOMMEN	DA'	TI	ons	:	(If	d	if	fere	ent	fı	om	NAS	A)								
ADOIL -						(	P	]	[	1	? ]		(	P	]	(AD	[ D/	/ DI	ETI ETI	ETE)	)
* CIL RI	ETE	IN	NOI	R.F	TION	IAL	E:	(I:	f ap	g	lic				DEQUAT DEQUAT		[		]		
REMARKS SINGLE VEHICLE CONTROL	: FAI /MI	LU [SS	JRE SION ICH	OF •	SWIT SECO	CH ONI	I F	OLE AIL ISID	/COI URE EREI	VT. C	ACT OUI RE	r SET LD CA ADILY	US	NO SE AP	ULD NO LOSS PARENT	OF OF	A D JR	US EP IN	E LO G	LOS Y/S FLI	S OF TOW GHT,

ASSESSI ASSESSI NASA FI	MEN: MEA	<b>r</b> :	ID:	M 0	ECH, 5-6	/KI EH-	3D- -5€								IASA D BASEL		[		]		
SUBSYST MDAC II ITEM:	rem: D:	:		4	ECH, 533 28V																
LEAD AN	IALY	(S)	r:	A	.D.	MO	NT	'GOM	ERY												
ASSESSM	ENT	<b>!</b> :																			
	CR		'ICAI 'LIGH				R	EDU	NDAN	CY	S	CREI	EN:	s				ΙL			
			W/FU				A			В				С			ľ	PEN	4		
NASA IOA	[	2 3	/1R /1R	]		[ [	P P	]	[	P F	]		[ [	P P	]		[	X X	]	*	
COMPARE	[	N	/	]		[		]	[	N	]		[		]				-		
RECOMME	NDA!	TI	ons:		(If	d:	ifi	fere	ent :	fro	om	NAS	A)								
			/1R			Ī			[					P		(AD	[ D/	DE	] LE	TE)	
* CIL RI	ETE	T	ION 1	RAT	ION	ALE	:	(If	app	oli	ca	ble									
REMARKS:	:												IN	AD	EQUAT:	E					
SINGLE H VEHICLE/ CONTROL PASSING	SWI	CIC	H FA	LTT	IRE	CO CO	PO FA NS	LE/ ILU IDE	CONT RE C RED	'AC OU RE	T LD AD	SET CAU	W US A	OU E PP	LD NOT LOSS ( ARENT	r cz OF I DUI	AU: DE: RII	SE PLO NG	LA OY,	OSS /ST( LIG)	OF OW HT,

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/04/88 MECH/KBD-4 05-6EH-560	1535 000-1			NASA DATA: BASELINE NEW	[ x ]	
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD/1 4535 +28V CONT	ACT #2					
LEAD ANALYST:	A.D. MONT	GOMERY					
ASSESSMENT:							
CRITICAL		EDUNDA	NCY	SCREE	NS	CIL ITEM	i
FLIGH HDW/FU		•	В		С		
NASA [ 2 /1F IOA [ 3 /1F	t ] [ F	· ]	[ P	]	[ P ] [ P ]	[ X	] *
COMPARE [ N /	] [	]	[ N	1	[ ]	[	1
RECOMMENDATIONS	: (If di	fferent	fro	om NAS	SA)		
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* CIL RETENTION	RATIONALE	: (If a	appl	icabl	e) ADEQUATE INADEQUATE		]
REMARKS: SINGLE FAILURE	OF SWITCH	POLE/C	ONTA	CT SE	T WOULD NOT	CAUS F DEP	E LOSS OF

REMARKS: SINGLE FAILURE OF SWITCH POLE/CONTACT SET WOULD NOT CAUSE LOSS OF VEHICLE/MISSION. SECOND FAILURE COULD CAUSE LOSS OF DEPLOY/STOW CONTROL SWTICH FAILURE CONSIDERED READILY APPARENT DURING FLIGHT, PASSING ALL SCREENS.

ASSESSM ASSESSM NASA FM	ENT ENT EA	r 1 7 ] *:	DATE [D:	1	2/04 MECH 05-6	/8: /K: EH-	B BD- -56	-453 5000	37 )-1					nasa Bas	ELIN	A: E [ W [	x	]		
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ASSESSMI	ENT	:																		
	CR	IT F	ICAI LIGH	LII	Y.		R	EDU	NDAN	CY	so	CREE	NS			CI	ĽL			
			W/FU				A			В			(	С		ΓI	EM			
NASA IOA	[	2 3	/1R /1R	l ]		[	P P	]	[	P F	]		[ ]	P ]		[	X X	]	*	
COMPARE			/			[		]										_		
RECOMMEN	DAT	CIC	ons:		(If	<b>d</b> :	ifí	fere	ent :	fro	m	NAS?	A)							
														<b>'</b> ]	(A	[ DD/1	DEI	l Let	ľE)	
* CIL RE	TEN	ΤI	ON 1	RA'	CION	ALE	E :	(If	app	li	cal	ble)								
REMARKS:													NA	DEQUA	ATE	Ĭ	]			
SINGLE FAVE VEHICLE/N CONTROL SPASSING A	AIL MIS SWT ALL	UR SI IC S	E OI ON. H FA CREE	F S S AII ENS	WITO ECON URE	CO	PO FA NS	LE/ ILU IDE	CONT RE C RED	AC OU RE	T S LD ADI	SET CAU LLY	WO SE AP	ULD 1 LOSS PAREN	NOT ( S OF IT DU	CAUS DEF JRIN	E LO	LO Y/ FL	SS STC	OF W

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	WECH/KBD	-4539		NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD 4539 +28V CON				
LEAD ANALYST:	A.D. MON	ITGOMERY			
ASSESSMENT:					
CRITICAL		REDUNDA	NCY SCREEN	ıs	CIL ITEM
FLIGH HDW/FU	T NC	A	В	С	
NASA [ 2 /1R IOA [ 3 /1R		P ] P ]	[ P ] [ F ]	[ P ] [ P ]	[ X ] * [ X ]
COMPARE [ N /		1		[ ]	[ ]
RECOMMENDATIONS:	(If d	ifferent	t from NAS	A)	
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* CIL RETENTION	RATIONAL	E: (If a		) ADEQUATE INADEQUATE	
REMARKS: SINGLE FAILURE ( VEHICLE/MISSION CONTROL SWTICH PASSING ALL SCR	. SECONI FAILURE (	POLE/CO FAILUR	ONTACT SET E COULD CA ED READILY	WOULD NOT USE LOSS O	CAUSE LOSS OF F DEPLOY/STOW DURING FLIGHT,

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SUBSYS! MDAC II	rei D:	Y:				4:	ECH, 540 ALKI			'EP	D&C													
LEAD A	IAV	ĽΥ	ST	<b>:</b>		A.	D.	MO	NT	'GO	MER	Y												
Assessi	ÆN	T	:																					
	C		F.	LTC	HJ	ני .					UNDA	\N	CY	S	CREI	EN.	s				IL PEN			
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COMPARE	}	[	N	/N		]		[	N	]		1	N	3		[	N	]		[		]		
RECOMME	ND	ľA	CIC	ONS	:		(If	d:	if	feı	cent	. 1	fro	m	NAS	A)	١							
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REMARKS																		EQUATE EQUATE		_		]		
SINGLE VEHICLE CONTROL PASSING	SV	VT	IC	Н	· ·A:	ILI	JRE																	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/04/88 MECH/KBD-4 05-6EH-566	4541 000-1		NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD/1 4541 TALKBACK				
LEAD ANALYST:	A.D. MONT	GOMERY			
ASSESSMENT:					
CRITICAL		EDUNDAN	CY SCRE	ENS	CIL ITEM
FLIGH HDW/FU			В	С	
NASA [ 2 /1F IOA [ 3 /3	? ] [ F	) [ ] [	P ]	[ P ] [ ]	[ X ] *
COMPARE [ N /N		4 ] [	[и]	[ и ]	[ ]
RECOMMENDATIONS	: (If di	fferent	from N	ASA)	
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* CIL RETENTION	RATIONALE	: (If a	pplicab	le) ADEQUATE INADEQUATE	[ ]
REMARKS: SINGLE FAILURE	OF SWITCH	POLE/CO	NTACT S	ET WOULD NOT	CAUSE LOSS OF DEPLOY/STOW

SINGLE FAILURE OF SWITCH POLE/CONTACT SET WOULD NOT CAUSE LOSS OF VEHICLE/MISSION. SECOND FAILURE COULD CAUSE LOSS OF DEPLOY/STOW CONTROL SWTICH FAILURE CONSIDERED READILY APPARENT DURING FLIGHT, PASSING ALL SCREENS.

ASSESSM ASSESSM NASA FM SUBSYST MDAC ID ITEM:	ENI EA EM:	[ ] #:	ID:	MI 0! MI 4!	ECH/ 5-6E	KE H-	3D- -56 3D/							NASA BASI	DATA ELINE NEW	] :	x	]	
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ASSESSMI	ENT	:																	
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		HD	W/FU	NC			A			В			(	2			EM		
NASA IOA	[	2 3	/1R /3	]		]	P	]	[	P	]		[ ]	? ] ]		[	X j	<b>*</b>	
COMPARE	[	N	/N	]		]	N	]	[	N	]	l		1]			]		
RECOMMEN	DAT	ric	ONS:		(If	đi	ff	ere	nt f	rc	m	NASA	.)						
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REMARKS:												I	NA	DEQUA DEQUA	TE		] ]		
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ASSESSME ASSESSME NASA FME	NT I	D:	MECH	/KBD-4	1517	A 3					SA DA ASELI 1		[				
SUBSYSTE MDAC ID: ITEM:			4517	/KBD/													
LEAD ANA	LYST	<b>!:</b>	A.D.	MONT	GOME	ERY											
ASSESSME	NT:																
				R	EDUN	IDANC	Y	SC	REENS	;				L EM			
		LIGH W/FU		A			В			С							
NASA IOA	[ 2	2 /1R 3 /2R	]	[ P	]	[	P F	]	]	P P	]		[	X X	]	*	
COMPARE	[ ]	N / N	1	[	]	[	N	]	[		]		[		]		
RECOMMEN	IDAT]	cons:	(I	f dif	fere	ent i	fro	om	nasa)	)							
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* CIL RI	ETEN	rion	RATIO	NALE:	(I:	f ap	pl:	ica		1A 1AN	EQUA EQUA	TE TE	[		]		
REMARKS: SINGLE I VEHICLE,	73 T T T	URE C	F SWI	COND F	'AIL	URE (	CO	ULL	SET 1	WOU SE	LOSS	OT OF	CAI D	USE EPI	<b>.</b> (O.2	1/31	OW

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/04/88 MECH/KBD 05-6EH-5	-4519 <b>A</b> 6000-3		NASA DATA BASELINE NEW		
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD, 4519 +28V CON					
LEAD ANALYST:	A.D. MON	TGOMERY				
ASSESSMENT:						
CRITICAL FLIGH	ITY 1	REDUNDANC	CY SCREEN	5	CIL	4
HDW/FU	NC 1	A	В	С	115	1
NASA [ 2 /1R IOA [ 3 /2R	] [1	P ] [	P ] [ F ] [	P ] P ]	[ X ]	] <b>*</b>
COMPARE [ N /N	] [	] [	N ] [	1	[	]
RECOMMENDATIONS:	(If di	fferent f	rom NASA	)		
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* CIL RETENTION	RATIONALE:	(If app	licable)			
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REMARKS: SINGLE FAILURE OF VEHICLE/MISSION.	SECOND F	'AILURE C	ACT SET WOLLD CAUS	OULD NOT C	AUSE	LOSS OF
CONTROL SWTICH F	AILURE CON	SIDERED	READILY A	PPARENT DU	RING	FLIGHT,

ASSESSMENT ASSESSMENT NASA FMEA #	ID:	MECH/KB	<b>U-4</b> 5	521A 00-3				•		SA DATA: ASELINE NEW	[			
SUBSYSTEM: MDAC ID: ITEM:		MECH/KB 4521 +28V CO				•	•							
LEAD ANALYS	ST:	A.D. MO	NTG	OMERY										
ASSESSMENT:	•													
CRI	ITICAL		RE	DUNDA	NC	Y	SCRE	ENS	3			IL PEN	1	
I	FLIGH HDW/FU		A			В			С					
NASA [ IOA [	2 /1F 3 /2F	t ] [	P P	]	[	P F	]	[	P P	]	[	X X	]	*
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RECOMMENDA'	TIONS	(If o	liff	erent	<b>.</b> :	fr	om NA	SA	)					
				1					P	) (A	] DD.	/D	ELI	ETE)
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FLIGHT, PASSING ALL SCREENS.

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SUBSYSTEM: MDAC ID: ITEM:	4523	BD/EPD&C ONTACT #4	l.		
LEAD ANALYST:	A.D. MO	NTGOMERY	?		
ASSESSMENT:					
CRITICA FLIG		REDUNDA	NCY SCRE	EENS	CIL
	UNC	A	В	С	ITEM
NASA [ 2 /1 IOA [ 3 /2	R ] [ R ] [	P ] P ]	[ P ] [ F ]	[ P ] [ P ]	[ X ] * [ X ]
COMPARE [ N /N	] [	]	[и]	[ ]	[ ]
RECOMMENDATIONS	(If d	ifferent	from NA	SA)	
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* CIL RETENTION	RATIONAL	E: (If a	pplicable		
REMARKS:				ADEQUATE INADEQUATE	
SINGLE FAILURE (VEHICLE/MISSION CONTROL SWTICH I PASSING ALL SCRI	'AILURE CO				

NASA DATA:

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/KBI	D-4525 <b>A</b> 56000 <b>-</b> 3		NASA DATA: BASELINE NEW	
	MECH/KBI 4525 +28V COI				
LEAD ANALYST:	A.D. MOI	NTGOMERY			
ASSESSMENT:					
		REDUNDAN	NCY SCREEN	s	CIL ITEM
FLIGH HDW/FU		A	В	С	<b></b>
NASA [ 2 /1R IOA [ 3 /2R	] [	P ] P ]	[ P ] [ [ F ] [	P ] P ]	[ X ] *
COMPARE [ N /N	] [	]	[и]	1	[ ]
RECOMMENDATIONS:	(If d	ifferent	from NASA	.)	
[ 3 /1R	] [	P ]	[P] [	P ]	[ ] DD/DELETE)
* CIL RETENTION	RATIONAL	E: (If a		ADEQUATE NADEQUATE	
REMARKS: SINGLE FAILURE O	F SWITCH	POLE/CO	NTACT SET	WOULD NOT	CAUSE LOSS OF

VEHICLE/MISSION. SECOND FAILURE COULD CAUSE LOSS OF DEPLOY/STOW CONTROL SWTICH FAILURE CONSIDERED READILY APPARENT DURING FLIGHT,

NASA DATA:

ASSESSMENT DATE: 2/04/88

ASSESSMENT ID: NASA FMEA #:	MECH/KE 05-6EH-	D-4527A 56000-3		BASELIN NE	E [ ] W [ X ]
SUBSYSTEM:	MECH/KB				• •
MDAC ID: ITEM:	4527 +28V CO	NTACT #	2		
LEAD ANALYST:	A.D. MO	ntgomer	Y		
ASSESSMENT:					
		REDUND	ANCY SCRI	eens	CIL
FLIGH HDW/FU		A	В	С	ITEM
NASA [ 2 /1F IOA [ 3 /2F	] [	P ] P ]	[ P ] [ F ]	[ P ] [ P ]	[ X ] * [ X ]
COMPARE [ N /N	] [	1	[ N ]	[ ]	[ ]
RECOMMENDATIONS:	(If d	ifferen	t from NA	ASA)	
[ 3 /1F	: ] [	P ]	[ P ]	[ P ]	[ ] ADD/DELETE)
* CIL RETENTION	RATIONAL	E: (If	applicabl	-	_
DEWS DVC.				ADEQUATE INADEQUATE	
REMARKS: SINGLE FAILURE OF VEHICLE/MISSION. CONTROL SWTICH F PASSING ALL SCRE	SECOND AILURE C	FAILUR	E COULD C	CAUSE LOSS OF	F DEPLOY/STOW

ASSESSMEN' ASSESSMEN' NASA FMEA	r .	ID:	Œ:	- 177	/04/8 ECH/K 5-6EH	UU.	-45 600	529A 00-3		NASA DATA: BASELINE [ ] NEW [ X ]											
SUBSYSTEM MDAC ID:	:			4	MECH/KBD/EPD&C 1529 +28V CONTACT #3 A.D. MONTGOMERY																
LEAD ANAI	χS	T:		P	.D. 1	MON	TG	OMER	Y												
ASSESSMEN	T:										0.01	DEEN	c				CI	L			
(	RI	TI	CAI	LI.	ΓY		RE	DUNI	ONAC	Y:	SC	REEN	3					EM	Ĺ		
	ī		JGI I/FI		С		A			В			С								
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COMPARE	•		/N			[		3	ĺ	N	]	ſ		)			[		]		
RECOMMEN	ארם	TT:	ONS		(II	e d	if	fere	nt	fr	om	NASA	4)								
RECOMMEN			/1					1			)			P ]		(A	] DD.	)/D	EL.	ETE)	
* CIL RI	ETE	:NT	OI	1 1	RATIO	IAN	Œ:	(If	aŗ	p]	ic	able	) IN	ADI ADI	EQUA'	TE TE	[	• •	]		
REMARKS SINGLE VEHICLE, CONTROL	M) SV	IS: WT]	[CH	N. F	F SWI SEC AILUR	TCI ONI	H I D I CON	POLE, FAILU ISID	/COI JRE EREI	O I	ACT OUL REA	SET D CA DILY	W US	OUI E I	LD N LOSS AREN	OT OI	CA F I	AUS DEF RIN	E LO IG	LOS: Y/S' FLI	S OF TOW GHT,

ASSESSM ASSESSM NASA FM SUBSYST MDAC ID ITEM:	ENTEA EA EM:	r : *:	ID:	ME 45 +2	2/04/88 MECH/KBD-4531A 05-6EH-56000-3 MECH/KBD/EPD&C 4531 +28V CONTACT #4 A.D. MONTGOMERY							NASA DATA: BASELINE [ ] NEW [ X ]									
LEAD AN	ALY	SI	?:	A.	D.	MO	rn	'GOMI	ERY												
ASSESSMI	ENT	:																			
		F	ICAL LIGH W/FU	T			R	EDUN	IDAN	CY B		CRE	EN					IL Pen			
MAGA										_				C							
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* CIL RE	ren	TI	ON F	ITAS	ONA	LE	:	(If	apr	ıl i	cai	hla	١			\	,,,	Ji.	LE	TE)	
								•			- u	-16		AD.	EQUA	TE	[		1		
REMARKS:			_										IN	AD:	<b>EQUA</b>	TE	r	:	]		
SINGLE FAVEHICLE/N CONTROL S PASSING A	IIS WT:	UR SI IC	E OF ON. H FA CREE	SW: SE( ILU) NS.	ITC CON RE	H I CON	PO PA IS	LE/C ILUR IDER	ONT E C ED	AC OU: RE	T S LD ADI	CAU LY	W US: A:	OU: E :	LD No Loss Aren'	OT C OF I DU	AUS DEI RIN	SE PLC IG	L( )Y, FI	OSS 'STO	OF OW HT,

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/KBD	-4533A		NASA DATA: BASELINE NEW	
MDAC ID:	MECH/KBD 4533 +28V CON				
LEAD ANALYST:	A.D. MON	TGOMERY			
ASSESSMENT:					
		REDUNDAN	CY SCREEN	S	CIL
FLIGH HDW/FU	NC NC	A	В	С	
NASA [ 2 /1R IOA [ 3 /1R	] [	P ] [	P ] [ F ] [	P ] P ]	[ X ] * [ X ]
COMPARE [ N /				1	[ ]
RECOMMENDATIONS:	(If di	fferent	from NASA	.)	
[ 3 /1F	: ] [	P ] [	P] [	P ] (A)	[ ] DD/DELETE)
* CIL RETENTION	RATIONALI	E: (If ap	oplicable) I	ADEQUATE	[ ]
REMARKS: SINGLE FAILURE ( VEHICLE/MISSION	SECOND	FAILURE	COOTD CW	DE DOSS OF	CAUSE LOSS OF DEPLOY/STOW URING FLIGHT,

CONTROL SWTICH FAILURE CONSIDERED READILY APPARENT DURING FLIGHT,

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/04/88 MECH/KBD-4535A 05-6EH-56000-3	NASA DATA: BASELINE [ ] NEW [ X ]								
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD/EPD&C 4535 +28V CONTACT #2									
LEAD ANALYST:	D ANALYST: A.D. MONTGOMERY									
ASSESSMENT:										
CRITICALI FLIGHT	TY REDUNDAN	ICY SCREENS	3	CIL ITEM						
HDW/FUN	IC A	В	С	Z Z Z Z Z						
NASA [ 2 /1R IOA [ 3 /1R	] [ P ] [	P ] [ F ] [	P ] P ]	[ X ] * [ X ]						
COMPARE [ N /	] [ ] [	[и]	]	[ ]						
RECOMMENDATIONS:	(If different	from NASA)								
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* CIL RETENTION R	ATIONALE: (If ap	_								
DEWADUG.		IN	ADEQUATE ADEQUATE	[ ]						
REMARKS: SINGLE FAILURE OF VEHICLE/MISSION. CONTROL SWTICH FA PASSING ALL SCREE	SECOND FAILURE ILURE CONSIDERED	COULD CARE	T 1000 00	DEDI AV JORAN						

ASSESSMEN ASSESSMEN NASA FMEA	T	ID	:	MECH	MD/U / K KI)=45 1 / A									[		]			
SUBSYSTEM MDAC ID:				MECH 4537 +28V															
LEAD ANAI	LYS	T:		A.D.	MON	ľŢG	OME	RY											
ASSESSME	T.	:																	
CRITICALITY REDUNDANCY SCREENS									3				[L CEM	I					
	F		LIGH V/FU	NC		A			В			С							
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COMPARE	[	N	/	]	[		]	ĺ	N	]	[		]		[		]		
RECOMMEN	DA'	TI	ons:	. (	If d	if	fere	ent i	fr	om 1	NASA	)							
	[	3	/1F	? ]	[	P	]	[	P	]	[	P	]	(A		/D		ETE)	
* CIL RE	ETE	ľΥ	ION	RATI	ONAI	E:	(I	f ap	pl	ica			DEQU DEQU	ATE ATE	[		]		
REMARKS: SINGLE I VEHICLE	FAI	LU	RE (	OF SW	ITCH CONI	I P	OLE AIL	/CON URE ERED	TA CO	CT ULD	SET CAU	WO SE AP	ULD LOS PARE	NOT S OF	CA F E	US EP RIN	E LO G	LOSS Y/ST FLIG	OF OW HT,

CONTROL SWTICH FAILURE CONSIDERED READILY APPARENT DURING FLIGHT,

ASSESSMI ASSESSMI NASA FMI	ENT ENT EA	; ; ; ;	ATE:	2/0 MEC: 05-	2/04/88 MECH/KBD-4539A 05-6EH-56000-3									NASA DATA: BASELINE [ ] NEW [ X ]						
SUBSYSTI MDAC ID: ITEM:	EM:			MEC 4539 +281	9											•		•		
LEAD ANA	LY	ST	:	A.D.	. MO	NT	GOMI	ERY												
ASSESSME	ENT	:																		
		F	LIGH	ITY T NC		R A		VDAN	CY B	sc	REE	NS	s c			CI				
NACA			•										_							
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COMPARE	[	N	/	]	[		]	E	N	]		[		]		[		]		
RECOMMEN	DAT	ric	ons:	(I	f d:	ifí	ere	nt i	fro	om 1	NAS	A)								
	[	3	/1R	]	[	P	]	[	P	]	1	[	P	]	(AE	[ DD/	DE	] :LE	TE)	
* CIL RE	TEN	ITI	ON F	OITAS	NALE	: E	(If	app	li	cak	ole)									
REMARKS:											1	N.	AD	EQUAT EQUAT	E			]		
SINGLE FACE CONTROL SPASSING A	WT	'IC	H FA	ILURI	rch Ond E co	PO FA NS	LE/0 ILUI IDEI	CONT RE C RED	AC OU RE	T S LD ADI	ET CAU LY	W(IS)	OU E PP.	LD NO LOSS ARENT	T C OF DU	AUS DEI RII	SE PL NG	L OY,	OSS C /STOW LIGHT	)F !

ASSESSMEI ASSESSMEI NASA FME	NT	ID		ME	04/88 CH/KI -6EH-	BD-	-4 60	540A 00-3	<b>L</b>					ASA BASE	ELII	NE	[	X	]		
SUBSYSTEM MDAC ID:	M:			454	ECH/KBD/EPD&C 540 ALKBACK																
LEAD ANA	LYS	ST:	:	<b>A.</b> !	D. MO	'MC	TG	OMEF	RY												
ASSESSME	NT:	:																			
	CR:		CAL				RE	DUNI	ONAC	CY	sc	REEN	S				CI	L EM	[		
	1		LIGH N/FUI				A			В			С								
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COMPARE	[	N	/N	1		[	N	]	[	N	3	(	N	3			[		]		
RECOMMEN	IDA'	TI	ons:		(If	di	.ff	ere	nt :	fro	om	NASZ	<b>A)</b>								
	[	3	/1R	)		[	P	]	[	P	]	1	P	]		(A		/DE		TE)	
* CIL RE	ETE	NT	ION	RAT	IONA	.LF	:	(If	ap	pl:	ica			DEQ DEQ	LAU LAU	E E	[		]		
REMARKS:	; 23 T	<b>T</b> TT	70 F A	T C	: <b>ພ</b> ፐጥር	u	D(	OLE/	CON	Τλ	СT									oss	

OF SINGLE FAILURE OF SWITCH POLE/CONTACT SET WOULD NOT CAUSE LOSS OF VEHICLE/MISSION. SECOND FAILURE COULD CAUSE LOSS OF DEPLOY/STOW CONTROL SWTICH FAILURE CONSIDERED READILY APPARENT DURING FLIGHT, PASSING ALL SCREENS.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/04/88 MECH/KB 05-6EH-	D-4541A 56000-3	NASA DATA: BASLINE [ ] NEW [ X ]							
	MECH/KB 4541 TALKBAC	•								
LEAD ANALYST:	A.D. MO	NTGOMERY								
ASSESSMENT:										
CRITICAL: FLIGHT	ITY	REDUNDAN	CY SCREE	ens	CIL					
	4C	A	В	С	ITEM					
NASA [ 2 /1R IOA [ 3 /3	] [	P ] [	P ]	[ P ] [ ]	[ X ] * [ X ]					
COMPARE [ N /N	] [	и][	n j	[и]	[ ]					
RECOMMENDATIONS:	(If di	ifferent	from NAS	A)						
[ 3 /1R	] [	P ] [	Рј		[ DD/DELETE)					
* CIL RETENTION F	RATIONALE	E: (If ap								
DEMYDKG.				ADEQUATE INADEQUATE	[ ]					
REMARKS: SINGLE FAILURE OF SWITCH POLE/CONTACT SET WOULD NOT CAUSE LOSS OF VEHICLE/MISSION. SECOND FAILURE COULD CAUSE LOSS OF DEPLOY/STOW CONTROL SWTICH FAILURE CONSIDERED READILY APPARENT DURING FLIGHT, PASSING ALL SCREENS.										

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/04/88 MECH/KBD 05-6EH-5	-4542 <b>A</b> 66000-3	NASA DATA: BASELINE [ ] NEW [ X ]								
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBI 4542 TALKBACI	K									
LEAD ANALYST:	A.D. MOI	NTGOMERY									
ASSESSMENT:			NCY SCREE	NS	CIL						
CRITICA	LITY	REDUNDA	NCI SCICLE		ITEM						
FLIGHT	HT TNC	A	В	С							
NASA [ 2 /1	R] [	P ]	[ P ] [ ]	[ P ] [ ]	[ X ] * [ X ]						
IOA [ 3 /3 COMPARE [ N /N		[ N ]	[и]	[ N ]	[ ]						
RECOMMENDATIONS	;: (If (	different	t from NAS	SA)							
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* CIL RETENTIO				INADEQUATE	: [ ]						
REMARKS: SINGLE FAILURE VEHICLE/MISSIO CONTROL SWTICE PASSING ALL SO	FAILURE	CH POLE/C ND FAILUF CONSIDER	CONTACT SE RE COULD C RED READII	ET WOULD NOT CAUSE LOSS ( LY APPARENT	CAUSE LOSS OF DEPLOY/STOW DURING FLIGHT,						

MEA THEA #:	: 2/03/88 MECH/KBD-4516 05-6EH-56000-4	NASA DATA: BASELINE [ ] NEW [ X ]					
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD/EPD&C 4516 +28V CONTACT #1	wan ( x )					
LEAD ANALYST:	A.D. MONTGOMERY						
ASSESSMENT:							
CRITICAL: FLIGH HDW/FUI	T ADDONDANCY SCREENS	ITEM					
NASA [ 2 /1R IOA [ 3 /1R	] [P] [P] [E]	[ X ] * [ X ]					
COMPARE [ N /	] [ ] [ [ ] [	£ J					
RECOMMENDATIONS:	(If different from NASA)						
[ 3 /1R	] [P] [P] [P ATIONALE: (If applicable)	] [ ] (ADD/DELETE)					
		DEQUATE [ ]					
REMARKS: SINGLE FAILURE OF VEHICLE/MISSION. CONTROL. SWITCH F SCREENS.	INAI SWITCH POLE/CONTACT SET WOU SECOND FAILURE COULD CAUSE FAILURE CONSIDERED READILY A	DEQUATE [ ]					

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/KBD-4518	NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD/EPD&C 4518 +28V CONTACT #2		
LEAD ANALYST:	A.D. MONTGOMERY		
ASSESSMENT:			
CRITICAL		JI DOMEDING	CIL ITEM
FLIGH HDW/FU	_	В С	
NASA [ 2 /1R IOA [ 3 /1R	[ P ] [ E ] [ P ] [	P ] [ P ] F ] [ P ]	[ X ] * [ X ]
COMPARE [ N /	] [ ] [	и] [ ]	[ ]
RECOMMENDATIONS:	(If different	from NASA)	
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* CIL RETENTION	RATIONALE: (If app	plicable) ADEQUATE INADEQUATE	[ ]
**************************************	CECOND FAILURE	TACT SET WOULD NOT COULD CAUSE LOSS OF ED READILY APPARENT	CAUSE LOSS OF DEPLOY/STOW

SCREENS.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/03/88 MECH/KBD-4 05-6EH-560	4520 000-4	NASA DAT BASELIN NE	·
	MECH/KBD/E 4520 +28V CONTA			
LEAD ANALYST:	A.D. MONTG	SOMERY		
ASSESSMENT:				
CRITICAL: FLIGHT		EDUNDANCY	SCREENS	CIL ITEM
HDW/FU	NC A	В	С	
NASA [ 2 /1R IOA [ 3 /1R	] [ P ]	] [ P ]	] [ P ] ] [ P ]	[ X ] * [ X ]
COMPARE [ N /	] [	] [ N	] [ ]	[ ]
RECOMMENDATIONS:	(If diff	erent fro	m NASA)	
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* CIL RETENTION F	RATIONALE:	(If applie	cable)	
REMARKS:			ADEQUATE INADEQUATE	
SINGLE FAILURE OF VEHICLE/MISSION. CONTROL. SWITCH SCREENS.	SECOND FA	ILURE COU	LD CAUSE LOSS OF	DEDIOV/STOW

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/03/88 MECH/KBD 05-6EH-5	0-4522 66000-4			NASA DATA: BASELINE NEW		
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBI 4522 +28V COM						
LEAD ANALYST:	A.D. MOI	NTGOMERY					
ASSESSMENT:							
CRITICAL		REDUNDA	NCY	SCREEN	S	CIL ITEM	
FLIGH HDW/FU		A	В		С		
NASA [ 2 /1F IOA [ 3 /1F	R ] [	P ] P ]	[ P	] [	P ] P ]	x ]	] <b>*</b>
COMPARE [ N /	] [	]	[ N	] [	1	[	]
RECOMMENDATIONS	: (If d	lifferen	t fro	om NASA	<b>(</b> )		
[ 3 /1	R ] [	P ]	[ P	] [	P (A	[ AD/DI	] ELETE)
* CIL RETENTION	RATIONAL	E: (If	appl		ADEQUATE	[	]
REMARKS: SINGLE FAILURE	OF SWITCH	H POLE/C	ONTA	CT SET	WOULD NOT	CAUS	E LOSS O

SINGLE FAILURE OF SWITCH POLE/CONTACT SET WOULD NOT CAUSE LOSS OF VEHICLE/MISSION. SECOND FAILURE COULD CAUSE LOSS OF DEPLOY/STOW CONTROL. SWITCH FAILURE CONSIDERED READILY APPARENT, PASSING ALL SCREENS.

ASSESSM NASA FMI	ENI ENI EA	. I	DATE:	ME 05-	CH/KBD-4524 -6EH-56000-4 CH/KBD/EPD&C										IASA I BASEI		[		] : ]	
SUBSYSTI MDAC ID: ITEM:	EM : :			452	24															
LEAD ANA	LY	ST	<b>':</b>																	
ASSESSME	ENT	:																		
		F	LIGH				R	EDUN	IDAN	CY	S	CREE	:N:	s			CI	-		
		HD	W/FU	NC			A			В				С			11	. E.	.1	
NASA IOA	]	2 3	/1R /3	]		]	P	]	]	P	]		]	P	]		]	X X	]	*
COMPARE	[	N	/N	]		[	N	]	[	N	]		[	N	]		[		]	
RECOMMEN	DAT	ric	ONS:	C	If (	di	ff	ere	nt :	fro	o <b>m</b>	NAS.	A)							
				]										P	]	(AD	[ D/	DE	] LE	TE)
* CIL RE	ren	TI	ON I	)ITAS	ANC	LE	:	(If	app	)1 i	.ca	ble	)							
REMARKS:													[N	AD	EQUAT	ĽΕ	•		]	
SINGLE FAVEHICLE/N CONTROL. SCREENS.	AIL MIS S	UR SI WI	E OF ON. TCH	SEC FAII	TCH CONI URI	H :	PO FA CO	LE/( ILUI NSII	CONT RE C DERE	'AC OU D	T LD RE.	SET CAU ADII	W JS: JY	OU E A	LD NO LOSS PPARE	OF C	AUS DEI	SE PLA	LOY, SII	OSS OF /STOW NG ALL

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SUBSYSTEM MDAC ID:					452	H/K 6 V C																	
LEAD ANAI	ΥS	T:	i		A.I	). M	ON	TG	OMI	ERY													
ASSESSMEN	T:																		<b>4</b>				
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	1			GHT FUI				A				В				С							
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COMPARE	[	N	/	'N	]		[	N	]		[	N	3		[	N	]		[		]		
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REMARKS SINGLE VEHICLE CONTROL	/M.	IS	UR SI WI	E (ON	OF • H F	SWIT SEC	rci ONI URI	H H	POL FAI CON	E/C LUR	ON RE DEI	ITA CC REI	CT OUL O R	SE D C EAD	T AU	WO JSE LY	ULD LOS APP	not SS 01 AREN'	CF F I T,	US DEF PA	E LO LSS	LOS Y/S ING	S OF TOW ALL

SCREENS.

ASSESSMI ASSESSMI NASA FMI	ENT	[ ]	[D:	MEC	H/K	'BD	-452 6000	28 )-4						IASA DA BASELI N			]	
SUBSYSTE MDAC ID: ITEM:	EM:			452	8		/EPC								•		,	
LEAD ANA	LY	ST	!:	A.D	. M	ON	[GOM	ERY										
ASSESSME	NT	:																
		F	LIGH			F	REDU!	NDAN	CY	s	CREE	ENS	5			IL		
				NC		A			В				С		1	TEN	ſ	
NASA IOA	[	2 3	/1R /3	]	[	[ P	]	]	P	]		]	P	]	[	X X	] * ]	ļ
COMPARE	[	N	/N	]	(	N	]	£	N	]		[	N	]				
RECOMMENI	rac	'IC	ONS:	(I	fd	if	fere	ent :	fro	om.	NAS	A)						
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* CIL RET	'EN	TI	ON R	OITAS	NAL	E:	(If	app	li	.cal	ble)	)						
REMARKS:			_								]	Į LNZ	AD:	EQUATE EQUATE	[	:	] ]	
SINGLE FA VEHICLE/M CONTROL. SCREENS.	IL IS: SI	UR SI WI	E OF ON. TCH	SWI! SEC FAIL	rch Ond Jre	PC FA	LE/ LILUI NSI	CONI RE C DERE	AC OU D	T S LD REA	SET CAU ADIL	WC JSE JY	UI L	LD NOT LOSS OF PPARENT	CAU DE	SE PLO ASS	LOS OY/S SING	S OF TOW ALL

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/03/88 MECH/KBD 05-6EH-5	9-4530 66000-4		NASA DATA: BASELINE NEW	[ x ]
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBI 4530 +28V COM	TACT #4			
LEAD ANALYST:	A.D. MOI	1TGOMERY			
ASSESSMENT:					CTI
CRITICAL		REDUNDA	NCY SCRE	ENS	CIL ITEM
FLIGH HDW/FU		A	В	С	
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SINGLE FAILURE OF SWITCH POLE/CONTACT SET WOULD NOT CAUSE LOSS OF VEHICLE/MISSION. SECOND FAILURE COULD CAUSE LOSS OF DEPLOY/STOW CONTROL. SWITCH FAILURE CONSIDERED READILY APPARENT, PASSING ALL SCREENS.

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SUBSYST MDAC ID ITEM:	EM :	:		MECH 4532 +28V												•	
LEAD AN	AL:	rsı	r:	A.D.	MC	rn	'GOMI	ERY									
ASSESSMI	ENT	C:															
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				NC					В			С			TE	M	
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* CIL RE	TE	NT]	ON 1	RATION	ALI	2:	(If	app	li	cal	ble)						
REMARKS:												NAD	EQUATE EQUATE	į		]	
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/KBD-4534	4 NEW [ X ]								
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD/EPD&C 4534 +28V CONTACT #2	2								
LEAD ANALYST:	A.D. MONTGOMERY	t .								
ASSESSMENT:										
CRITICAL FLIGH	ITY REDUNDA		CIL ITEM							
HDW/FU		В С								
NASA [ 2 /1R IOA [ 3 /2R	] [ P ] ] [ P ]	[ P ] [ P ] [ F ] [ P ]	[ X ] *							
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/03/88 MECH/KBD-4536 05-6EH-56000-	i •4	NASA DAT BASELIN NE	
	MECH/KBD/EPD& 4536 +28V CONTACT			
LEAD ANALYST:	A.D. MONTGOME	RY		
ASSESSMENT:				
FLIGHT				CIL ITEM
nuw/rur	IC A	В	С	
NASA [ 2 /1R IOA [ 3 /2R	] [ P ] ] [ P ]	[ P ] [ F ]	[ P ] [ P ]	[ X ] * [ X ]
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* CIL RETENTION R	ATIONALE: (If	applicab:	le)	
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SINGLE FAILURE OF VEHICLE/MISSION. CONTROL. SWITCH SCREENS.	SECOND FAILUI FAILURE CONSII	RE COULD (	TAILSE LOSS OF	F DEDIOV/COOK

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/03/88 MECH/KBD 05-6EH-5			NASA DATA: BASELINE NEW	[ x ]
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD 4538 +28V CON	TACT #4			
LEAD ANALYST:	A.D. MOI	NTGOMERY			
ASSESSMENT:	TMV	REDUNDA	NCY SCREE	ns	CIL ITEM
CRITICAI FLIGH HDW/FU	IT	A	В	С	
NASA [ 2 /11 IOA [ 3 /21	R] [	P ] P ]	[ P ] [ F ]	[ P ] [ P ]	[ X ] * [ X ]
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SUBSYSTEM: MDAC ID: ITEM:	MECH/KB 14689 DIODE (		BLE CIRCU	IT)	
LEAD ANALYST:	M. BRAD	WAY			
ASSESSMENT:					
CRITICA		REDUNDA	NCY SCREE	ens	CIL ITEM
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SUBSYST MDAC ID ITEM:	EM:	MECH 4547 AND			С			·	··· 2 /	
LEAD AN	ALYST:	A.D.	MONT	'GOME!	RY					
ASSESSMI	ENT:									
	CRITICAL FLIGH	T	R	EDUND	ANCY	SCRE	ENS		CIL	
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REMARKS:							AC INAD	EQUATE EQUATE	[ ]	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/05/88 MECH/KBD- 05-6EH-5	-4549 6020 <b>-</b> 2		NASA DATA: BASELINE NEW	[ x ]
MDAC ID:	MECH/KBD, 4549 AND GATE				
LEAD ANALYST:	A.D. MON	TGOMERY			
ASSESSMENT:					
CRITICAL		REDUNDA	NCY SCREE	NS	CIL ITEM
FLIGH HDW/FU		A	В	С	
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SUBSYST MDAC ID ITEM:	EM:	•		4	ÆСН 1563 (72	/KI	BD,	/EP[	)&C									•	, ,	
LEAD AN	ALY	SI	?:	A	.D.	MC	ГИC	GOM	ER	ľ										
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ASSESSMI ASSESSMI NASA FMI	ENT ID:	MECH	/88 /KBD- EH-56	4569 020	9 <b>-</b> 2		1	NASA DA BASELI		] <b>x</b> ]	) 
SUBSYSTI MDAC ID: ITEM:		4569			&C SWITCH	#1					
LEAD ANA	ALYST:	A.D.	MONT	GOMI	ERY						
ASSESSME	ENT:										
	FLI	ALITY GHT			IDANCY	SCR				IL FEM	
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	MECH/KBD 4577 AND GATE								
LEAD ANALYST:	A.D. MON	TGOMERY	<u>.</u>						
ASSESSMENT:									
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SUBSYSTE MDAC ID:				45	CH/KI 83 P #1	ВD	)/E	PD&C	2												
LEAD ANA	LYS	T:		A.	D. M	ON	ľTG	OME	RY												
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ASSESSME	ENT	:																	
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	,		W/FU				A			В			C			1.1	CEN	1	
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/05/88 MECH/KBD-4 05-6EH-560	.592 )20 <b>–</b> 2	NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD/E 4592 K27	ZPD&C		
LEAD ANALYST:	A.D. MONTO	GOMERY		
ASSESSMENT:				
CRITICAL		EDUNDANCY SO	CREENS	CIL ITEM
FLIGH HDW/FU	_	В	С	
NASA [ 3 /1R IOA [ 3 /1R	[ P	] [ F ] ] [ F ]	[ P ] [ P ]	[ X ] * [ X ]
COMPARE [ /	] [	] [ ]	[ ]	[ ]
RECOMMENDATIONS:	(If dif	ferent from	NASA)	
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* CIL RETENTION REMARKS:	RATIONALE:	(If applic	able) ADEQUATE INADEQUATE	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/KBD-	-4594 5020-2		NASA DAT BASELIN NE	
	MECH/KBD/ 4594 K37	EPD&C			•
LEAD ANALYST:	A.D. MONT	GOMERY			
ASSESSMENT:					
CRITICAL: FLIGHT		EDUNDAN	CY SCRE	ens	CIL
HDW/FUN			В	С	ITEM
NASA [ 3 /1R IOA [ 3 /1R	] [ P	] [	F ] F ]	[ P ] [ P ]	[ X ] * [ X ]
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SUBSYSTEM MDAC ID: ITEM:	M:	MECH/KI 4598 DEPLOY			тсн	#2						
LEAD ANA	LYST:	A.D. MO	OTIC	OMER	ľ							
ASSESSME	NT:											
•	CRITICAL FLIGH HDW/FU	T	RE A	EDUNDA	ANCY B	SCREE	ns	c C	CI II	L	ſ	
NASA IOA	·	2 ]	[ P	]	[ <b>F</b>	]	[	P ] P ]	[	X X	]	*
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REMARKS:												

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/KBI	0-4543 56021 <b>-</b> 2		NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBI 4543 AND GATE	•			
LEAD ANALYST:	A.D. MON	TGOMERY			
ASSESSMENT:					
CRITICAL: FLIGHT		REDUNDA	NCY SCRE	ens	CIL ITEM
HDW/FUI		A	В	С	
NASA [ 2 /1R IOA [ 3 /2R	] [	P ] P ]	[ F ] [ F ]	[ P ] [ P ]	[ X ] * [ X ]
COMPARE [ N /N	] [	1	[ ]	[ ]	[ ]
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REMARKS: POTENTIAL LOSS OF LOSS OF REDUNDANT FLIGHT.	F CREW/MI	SSION V	ERIFIED ( ONSIDERE	UPON FURTHER	REVIEW.

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SUBSYSTEM MDAC ID:				MECH/KI 4545 AND GA	TE	#:	2											
LEAD ANAI	LYS	T:		A.D. M	ON	TG	OMERY											
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SUBSYS MDAC : ITEM:	STE ID:	M:				MECH 4551 AMP	L	BD,	/EPI	O&C								-		•		
LEAD A	NA:	LY	ST	:		A.D.	MC	ГИC	'GOM	ŒRY												
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REMARKS POTENTT	: 'AT.	т,	26	c 0		<b>an</b> =	4								<b>IAD</b>	EQUAT	Έ	[	]			
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SUBSYSTEM MDAC ID:			MECH/1 4553 AMP #2	2												
LEAD ANAL	YST:		A.D. 1	MON	TG	OMERY	?									
ASSESSMEN	T:												٥.			
c	RITI				RE	DUNDA	/NC	Y	SCR	EENS	•			LT LEW		
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REMARKS: POTENTIA LOSS OF FLIGHT.	L LO	SS NDA	OF CRE	W/M DWA	IIS	SION NOT	CC	eri Ons	FIE	D UI RED	PON RE	FURTHE	R I	REV ARE	IE	W. DURING

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SUBSYST: MDAC ID ITEM:				MECH 4559 K14	/KI	BD,	/EPD	&C							•	•	
LEAD AND	ALY	ST	<b>':</b>	A.D.	MC	l'N	GOME	ERY									
ASSESSMI	ENT	:															
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* CIL RET	ren	ΤI	ON R	ATION	\LE	:	(If	app	li	cab:	le)						
REMARKS:			•								IN.	AD)	EQUATE EQUATE	[	]		
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ASSESSMENT DATE ASSESSMENT ID: NASA FMEA #:	一 内にしれ/ れり	D-4561 56021-2	3								
SUBSYSTEM: MDAC ID: ITEM:	4561 K68	BD/EPD&C									
LEAD ANALYST:	A.D. MC	ONTGOMERY									
ASSESSMENT:					CIL						
CRITIC		REDUNDA	NCY SCREI	ens	ITEM						
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COMPARE [ N /	и ]	[ ]	[ ]	[ ]	[ ]						
RECOMMENDATION	s: (If	different	from NA	SA)							
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* CIL RETENTI	ON RATIONA	ALE: (If	applicabl	le) ADEQUATE INADEQUATE	: [ ]						
REMARKS: POTENTIAL LOS LOSS OF REDUN FLIGHT.	S OF CREW, DANT HARD	/MISSION WARE NOT	VERIFIED CONSIDER	UPON FURTHE ED READILY A	ER REVIEW. APPARENT DURING						

SUBSYSTEM: MEC							CH/KBD-4567 -6EH-56021-2							NASA DATA: BASELINE [ ] NEW [ X ]								
SUBSYST	'EM	:		:	MECH	/KE	BD,	/EPD	)&C													
MDAC II	):				4567																	
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REMARKS:													I	A NA	D	EQUATE EQUATE	i		]			
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/04/88 MECH/KBD-4 05-6EH-560	571 21 <b>-</b> 2	NASA DATA: BASELINE NEW	[ x ]
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD/E 4571 AND GATE #			
LEAD ANALYST:	A.D. MONTG	OMERY		
ASSESSMENT:				
CRITICAL		EDUNDANCY SO	CREENS	CIL ITEM
FLIGH HDW/FU		В	С	
NASA [ 2 /11 IOA [ 3 /21	R ] [ P	] [ F ] ] [ F ]	[ P ] [ P ]	[ X ] * [ X ]
COMPARE [ N /N	] [	] [ ]	[ ]	[ ]
RECOMMENDATIONS	: (If dif	ferent from	NASA)	
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* CIL RETENTION	RATIONALE:	(If applic	able) ADEQUATE INADEQUATE	[ ]
REMARKS: POTENTIAL LOSS LOSS OF REDUNDA FLIGHT.	OF CREW/MIS	SSION VERIFI E NOT CONSID	ED UPON FURTHER DERED READILY AF	R REVIEW. PPARENT DURING

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SUBSYSTE MDAC ID: ITEM:	em:			MECI 4573 AND	3			&C							•		•
LEAD ANA	LY	SI	<b>!:</b>	A.D.	MO	NI	GOM	ERY									
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/04/88 MECH/KBD- 05-6EH-56	-4579 5021 <b>-</b> 2		NASA DATA: BASELINE NEW	
	MECH/KBD, 4579 AMP #1	/EPD&C			
LEAD ANALYST:	A.D. MON	<b>IGOMERY</b>			
ASSESSMENT:					
CRITICAL		REDUNDA	NCY SCREE	ens	CIL ITEM
FLIGH HDW/FU		A	В	С	
NASA [ 2 /1F IOA [ 3 /2F	l] [	P ] P ]	[ F ] [ F ]	[ P ] [ P ]	[ X ] *
COMPARE [ N /N	_		[ ]	[ ]	[ ]
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* CIL RETENTION	RATIONALI	E: (If a	applicabl	e) ADEQUATE INADEQUATE	
REMARKS: POTENTIAL LOSS LOSS OF REDUNDA FLIGHT.	OF CREW/MI	ISSION V	VERIFIED CONSIDERE	UPON FURTHER D READILY AF	REVIEW. PARENT DURING

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/04/88 MECH/KBD-4581 05-6EH-56021-	2	NASA DATA BASELINE NEW	
MDAC ID:	MECH/KBD/EPD& 4581 AMP #2	c		
LEAD ANALYST:	A.D. MONTGOME	RY		
ASSESSMENT:				
CRITICALI FLIGHT	TY REDUN	DANCY SCREE	ns	CIL
HDW/FUN		В	С	ITEM
NASA [ 2 /1R IOA [ 3 /2R	] [ P ] ] [ P ]	[ F ] [ F ]	[ P ] [ P ]	[ X ] * [ X ]
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* CIL RETENTION R	ATIONALE: (If		ADEQUATE	[ ]
REMARKS:			INADEQUATE	
POTENTIAL LOSS OF LOSS OF REDUNDANT FLIGHT.	CREW/MISSION HARDWARE NOT	VERIFIED UI CONSIDERED	PON FURTHER READILY APP	REVIEW. ARENT DURING

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/KBD-458	7 BA	SA DATA: ASELINE [ ] NEW [ X ]
	MECH/KBD/EPD 4587 K25	)&C	
LEAD ANALYST:	A.D. MONTGOM	ŒRY	
ASSESSMENT:			
CRITICAL		INDANCY SCREENS	CIL ITEM
FLIGH HDW/FU	_	в с	
NASA [ 2 /1R IOA [ 3 /2R	] [P]	[F] [P [F] [P	[ X ] *
COMPARE [ N /N	] [ ]	[ ] [	] [ ]
RECOMMENDATIONS:	(If differ	rent from NASA)	
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* CIL RETENTION	RATIONALE: (	If applicable) AD INAD	DEQUATE [ ] DEQUATE [ ]
REMARKS: POTENTIAL LOSS ( LOSS OF REDUNDAN	OF CREW/MISSIONT HARDWARE N	ON VERTETED UPON	

FLIGHT.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/KBD-4589	NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD/EPD&C 4589 K2		
LEAD ANALYST:	A.D. MONTGOMERY		
ASSESSMENT:			
CRITICALI FLIGHT	TTY REDUNDAN	CY SCREENS	CIL
HDW/FU		в с	ITEM
NASA [ 2 /1R IOA [ 3 /2R	] [P] [ ] [P] [	F ] [ P ] F ] [ P ]	[ X ] * [ X ]
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REMARKS: POTENTIAL LOSS OF LOSS OF REDUNDANT FLIGHT.	CREW/MISSION VER HARDWARE NOT CON	RIFIED UPON FURTHER SIDERED READILY APP	REVIEW. ARENT DURING

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/KBL	CH/KBD/EPD&C NEW [ X ]											
SUBSYSTEM: MDAC ID: ITEM:	4596	D/EPD&C CROSWITC	H #2										
LEAD ANALYST:	A.D. MOI	ntgomery	•										
ASSESSMENT:													
CRITICAL		REDUNDA	NCY SCREE	ens	CIL ITEM								
FLIGH HDW/FU		A	В	С									
NASA [ 2 /11 IOA [ 3 /11	R ] [	P ] P ]	[ F ] [ F ]	[ P ] [ P ]	[ X ] * [ X ]								
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RECOMMENDATIONS	: (If d	differen	t from NA	SA)									
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* CIL RETENTION	RATIONA	LE: (If	applicabl	.e) ADEQUATE INADEQUATE									
REMARKS: POTENTIAL LOSS LOSS OF REDUNDA	OF CREW/	MISSION ARE NOT	VERIFIED CONSIDERI	UPON FURTHE ED READILY A	R REVIEW PPARENT DURING								

FLIGHT.

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LEAD AN	ALY	ST	:	M.	BRA	DW	AY												
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ASSESSMENT DATE: 2/26/88 ASSESSMENT ID: MECH/KBD-14697 NASA FMEA #: 05-6EH-56055-1 SUBSYSTEM: MECH/KBD/EPD&C							K				NA: B	SA I ASEI	DATA LINE WEW		x	]			
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LEAD ANA	LYS	T:	M. BR	ADWA	Y						
ASSESSME	NT:										
	CRI	TICAL FLIGH		F	EDUN	DANCY	SCR	EENS		CII	
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/03/88 MECH/KBD-4501 05-6EH-56060-1	NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD/EPD&C 4501 +28V CONTACT #1		
LEAD ANALYST:	A.D. MONTGOMERY		
ASSESSMENT:			
	ITY REDUNDAN	CY SCREENS	CIL ITEM
FLIGH HDW/FU		ВС	
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/03/88 MECH/KBD-6 05-6EH-560	4503 060-1	1	NASA DATA: BASELINE NEW	[ x ]								
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD/1 4503 +28V CONT												
LEAD ANALYST:	A.D. MONT	GOMERY											
ASSESSMENT:					ATT								
CRITICAL		REDUNDANC	Y SCREENS		CIL ITEM								
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REMARKS: FAILURE OF A SI LOSS OF VEHICLE CAUSE LOSS OF V	REMARKS: FAILURE OF A SINGLE SWITCH POLE/CONTACT SET OPEN WOULD NOT CAUSE LOSS OF VEHICLE/MISSION. FAILURE OF REDUNDANT HARDWARE COULD CAUSE LOSS OF VEHICLE/MISSION AND NOT CONSIDERED READILY APPARENT												

NASA FM	2/03/88 MECH/KBD-4505 05-6EH-56060-1 MECH/KBD/EPD&C						NASA DATA: BASELINE [ ] NEW [ X ]											
WDWC ID	cm: :			1	1ECH, 1505	/KI	3D/	'EPD	&C									
ITEM:					-28V	CC	ra	'ACT	#3									
LEAD AND	ALY	SI	<b>?:</b>	Į	.D.	MC	IN	'GOMI	ERY									
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/03/88 MECH/KBD 05-6EH-5	0-4507 66060-1		NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD 4507 +28V CON				
LEAD ANALYST:	A.D. MON	ITGOMERY			
ASSESSMENT:					
CRITICAL: FLIGH		REDUNDANC	CY SCREENS	;	CIL ITEM
HDW/FU	NC	A	В	С	
NASA [ 2 /1R IOA [ 3 /3	] [	P ] [	NA] [ ] [	P ]	[ X ] * [ X ]
COMPARE [ N /N	] [	N ] [	N ] [	N ]	[ ]
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	MECH/KBD/EPD&C 4509 +28V CONTACT #1		
LEAD ANALYST:	A.D. MONTGOMERY		
ASSESSMENT:			
CRITICAL: FLIGH	ITY REDUNDANC	CY SCREENS	CIL ITEM
HDW/FU	NC A	ВС	
NASA [ 2 /1R IOA [ 3 /1R	] [ P ] [ ] [ P ]	NA] [ P ] F ] [ P ]	[ X ] * [ X ]
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LOSS OF VEHICLE/I	MISSION. FAILURE	ONTACT SET OPEN WOUL OF REDUNDANT HARDWA NOT CONSIDERED READ	D NOT CAUSE

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SUBSYSTEM: MDAC ID: ITEM:	MECH/KB 4511 +28V CO	D/EPD&C NTACT #2			
LEAD ANALYST:	A.D. MO	NTGOMERY			
ASSESSMENT:					
CRITICA	LITY	REDUNDANC	Y SCREENS		CIL ITEM
FLIC HDW/I	UNC	A	В С		
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REMARKS: FAILURE OF A S LOSS OF VEHICI CAUSE LOSS OF DURING FLIGHT.	E/MISSION VEHICLE/M	TCH POLE/C FAILURE	ONTACT SET OF REDUNDA NOT CONSII	OPEN WOU! ANT HARDWI DERED REA!	LD NOT CAUSE ARE COULD DILY APPARENT

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REMARKS: FAILURE ( LOSS OF	OF VEH	A	SING	LE SW	ITC	H	POLE	E/CO	NT	'ACT	II SE	VAI C	EQUAT EQUAT PEN V	OUL:	DN	OT	CAU JLD	JSE
CAUSE LOS DURING FI	LIG	HT		топе/	MID	SΙ	UN A	MD	NO	тс	ONS	DE	RED F	READ	ILY	AI	PAF	≀ENT

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SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD 4515 +28V CON										
LEAD ANALYST:	A.D. MON	TGOMERY									
ASSESSMENT:											
CRITICAL		REDUNDAN	CY SCREE	NS	CIL ITEM						
FLIGH HDW/FU	T NC	A	В	С							
NASA [ 2 /1F IOA [ 3 /1F	t] [	P ] [	NA] F]	[ P ] [ P ]	[ X ] * [ X ]						
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REMARKS: FAILURE OF A SI LOSS OF VEHICLE	NGLE SWIT	CH POLE/ FAILUR	CONTACT : E OF RED D NOT CO	SET OPEN WOU UNDANT HARDY NSIDERED REA	JLD NOT CAUSE WARE COULD ADILY APPAREN						

CAUSE LOSS OF VEHICLE/MISSION AND NOT CONSIDERED READILY APPARENT DURING FLIGHT.

ASSESSM ASSESSM NASA FM	/88 /KI EH-	KBD-4501 <b>A</b> H-56060-3							NASA DATA: BASELINE [ ] NEW [ X ]								
SUBSYST MDAC ID ITEM:	EM:			MECH 4501 +28V												-	
LEAD AND	ALY	ST	<b>:</b>	A.D.	MO	NT	GOME	ERY									
ASSESSMI	ENT	:															
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/KBL	1-45U3A	NASA DATA: BASELINE NEW						
	MECH/KBI 4503 +28V CON								
LEAD ANALYST:	A.D. MOI	TGOMERY							
ASSESSMENT:									
CRITICAI FLIGH		REDUNDANC	Y SCREENS		CIL ITEM				
HDW/FU		A	В	С					
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REMARKS: FAILURE OF A SI LOSS OF VEHICLE CAUSE LOSS OF V DURING FLIGHT.	NGLE SWIT /MISSION EHICLE/MI	CCH POLE/C FAILURE ISSION AND	ONTACT SE OF REDUN NOT CONS	I OPEN WOU DANT HARDW IDERED REA	LD NOT CAUSE ARE COULD DILY APPARENT				

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SUBSYSTIMDAC ID	EM:			4	ECH/ 505 28V														
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SUBSYSTEM: MDAC ID: ITEM:		MECH/KI 4507 +28V C					•								
LEAD ANALYST	:	A.D. M	ONTG	OMERY											
ASSESSMENT:															
CRIT			RE	DUNDA	NC	Y	SCREE	NS			CI	L EM			
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COMPARE [ N	/N	1	[ ]	]	[	N	]	[	N	]	[		]		
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* CIL RETENT	'ION	RATIONA	LE:	(If a	apj	pl:	icabl€		IA IAN	DEQUATE DEQUATE	[		]		
REMARKS: FAILURE OF A LOSS OF VEHI CAUSE LOSS O															1

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	MECH/KBD/EPD&C 4509 +28V CONTACT #1		
LEAD ANALYST:	A.D. MONTGOMERY		
ASSESSMENT:			
CRITICAL) FLIGHT HDW/FUN	•		CIL ITEM
		_	
NASA [ 2 /1R IOA [ 3 /1R	] [P] [ ] [P]	NA] [ P ] F ] [ P ]	[ X ] * [ X ]
COMPARE [ N /	] [][	<b>n</b> ] [ ]	[ ]
RECOMMENDATIONS:	(If different	from NASA)	
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/03/88 MECH/KBD-4511A 05-6EH-56060-3	NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD/EPD&C 4511 +28V CONTACT #2		
LEAD ANALYST:	A.D. MONTGOMERY		
ASSESSMENT:			
CRITICAL: FLIGHT	TY REDUNDANC	CY SCREENS	CIL ITEM
	NC A	В С	
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SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD/EPD&C 4513 +28V CONTACT #3												
LEAD ANALYST:	A.D. MONTGOMERY												
ASSESSMENT:													
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM													
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LOSS OF VEHICLE/	MISSION. FAILURE	ONTACT SET OPEN WOUL OF REDUNDANT HARDWA NOT CONSIDERED REAL	RE COULD										

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SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD/EPD&C 4515 +28V CONTACT #4		
LEAD ANALYST:	A.D. MONTGOMERY		
ASSESSMENT: CRITICAL	TTY REDUNDAN	ICY SCREENS	CIL ITEM
FLIGH HDW/FU	HT _	В С	
NASA [ 2 /1] IOA [ 3 /1]		[ NA] [ P ] [ F ] [ P ]	[ X ] * [ X ]
COMPARE [ N /	. 1	[и] [и]	[ ]
RECOMMENDATIONS	: (If different	from NASA)	_
[ 3 /1		[F] [P]	[ A ] (ADD/DELETE)
* CIL RETENTION	RATIONALE: (If a	applicable) ADEQUAT INADEQUAT	PE [ ]
REMARKS: FAILURE OF A S	INGLE SWITCH POLE,	CONTACT SET OPEN V	OULD NOT CAUSE ROWARE COULD READILY APPAREN

LOSS OF VEHICLE/MISSION. FAILURE OF REDUNDANT HARDWARE COULD CAUSE LOSS OF VEHICLE/MISSION AND NOT CONSIDERED READILY APPARENT DURING FLIGHT.

ASSESSM ASSESSM NASA FM SUBSYST MDAC ID ITEM: LEAD AN	EN EA EM:	* * 'S]	ID:	MECH 05-6 MECH 4500 +28V	I/K EH /KI	BD -5 BD,	/EPD FACT	&C #1			NA: B	SA DAT. ASELIN NEI	A: E [ ] W [ X ]
	O.	·	T										
	CR		ICAI LIGH	YTI		R	EDUN	IDAN	CY	SCI	REENS		CIL
			W/FU			A			В		С		ITEM
NASA IOA	į	2 3	/1R /3	]	[	P	]	_	N		[ P ]		[ X ] * [ X ]
COMPARE	[	N	/N	]	[	N	3	[	N	]	[и]		[ ]
RECOMMEN	DAT	CIC	esec	(If	di	fí	ere	nt f	rc	m N	ASA)		
<b>.</b>				]	[	P	]	[	F	]	[ P ]	(AD	[ A ] D/DELETE)
* CIL RET	CEN	TI	ON F	RATION	<b>\LE</b>	:	(If	app	li	cab]	le)		
REMARKS: A SINGLE VEHICLE/M LIFE/VEHI	SW:	IT ST	CH P	OLE SH	OR!	<b>r</b> 1	MOUL	D No	OΤ	CAU	ADEQI INADEQI ISE LOSS	JATE OF	[ ] [ ]
REDUNDANT	H.	<b>X</b> RI	)WAR	E FOUN	D.				_	±11 <i>D</i>	TONITON	OF LOS	SS OF

ASSESSMENT DATE ASSESSMENT ID: NASA FMEA #:	05-6EH	-56060-6		NASA DATA: BASELINE NEW	[ x ]
SUBSYSTEM: MDAC ID: ITEM:	4502 +28V C	BD/EPD&C ONTACT #2			
LEAD ANALYST:	A.D. M	ONTGOMERY			
ASSESSMENT:					CIL
CRITIC	ALITY	REDUNDA	NCY SCREE	NS	ITEM
FL: HDW.	GHT FUNC	A	В	С	
NASA [ 2 ,	'1R ]	[ P ] [ ]	[ NA] [ ]	[ P ] [ ]	[ X ] *
COMPARE [ N	/N ]	[ N ]	[и]	[ N ]	[ ]
RECOMMENDATIO	ws. (If	differen	t from NAS	SA)	
	/1R ]	[ P ]	[ F ]	r P 1	[ A ] ADD/DELETE)
* CIL RETENT	ON RATION	NALE: (If	applicabl	e) ADEQUATE INADEQUATE	[ ]
REMARKS: A SINGLE SWI' VEHICLE/MISS LIFE/VEHICLE REDUNDANT HA	NO "RE	ADILY APP	LD NOT CAU ECOND ITEM ARENT" IND	SE LOSS OF COULD CAUS DICATION OF	E LOSS OF LOSS OF

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: SUBSYSTEM: MDAC ID: ITEM: LEAD ANALYST: ASSESSMENT:	MECH/K 05-6EH MECH/K 4504 +28V C	BD-4504 -56060-6 BD/EPD&C	5 : :3	NASA DAT BASELIN NE	'A: E [ ] W [ X ]
CRITICAL		REDUND	ANCY SCR		
FLIGHT			met SCK	LENS	CIL
HDW/FU	iC	A	В	С	ITEM
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IOA [ 3 /3	j	P ]	[ NA] [ ]	[ P ] [ ]	[ X ] * [ X ]
COMPARE [ N /N	1 .	N 3		r j	[ X ]
, ,	, (	иј	[ N ]	[ N ]	[ ]
RECOMMENDATIONS.	/T# 1				
RECOMMENDATIONS:				SA)	
[ 3 /1R	] [	Pj	(F)	[ P ]	_
				/25	[ A ] D/DELETE)
* CIL RETENTION RA	TIONALE	!: (Tf a)	nm1 d 1 n	(AL	D/ DELETE)
		· (rr a)	bbricapi		_
REMARKS: A SINGLE SWITCH DO	TE Guan			ADEQUATE INADEQUATE	[ ]
A SINGLE SWITCH PO VEHICLE/MISSION.	LE SHOR	T WOULD	NOT CAUS	E LOSS OF	
LIFE/VEHTCLE NO	"READIL	Y APPARE	TOM ITEM	CATTON OF	LOSS OF
REDUNDANT HARDWARE	FOUND.	-	- ~01	CHITOM OF TO	SS OF

ASSESSMEN ASSESSMEN NASA FMEA	T	ID	TE:	2/03/ MECH/ 05-6	/KBD	-4	506 60-	; -6					1			DATA LINI NEV	E			]	
SUBSYSTEM MDAC ID:				MECH, 4506 +28V																	
LEAD ANAI	LYS	T:		A.D.	MON	TG	OMI	ERY													
ASSESSMEN	1T:																				
C	CRI		CALI	[TY r		RE	EDUI	ADA	NC	Y	SCR	REEN	S					CI I'I	L	ſ	
	H			NC		A				В				С							
NASA IOA	[	2	/1R /3	]	[	P	]		]	NĀ	]	[	:	P	]			]	X	]	*
COMPARE	(	N	/N	3	[	N	]		(	N	]	-		N	]			[		]	
RECOMMEN	DA!	ric	ons:	(1	f d	if:	fer	ent	: 1	fro	om 1	NASI	A)								
	[	3	/1R	)	ĺ	P	]		[	F	]		[	P	]	(	ΆΙ			ELJ	ETE)
* CIL RE	TE	NT:	ION	RATIO	NAL	E:	(I	fa	ıpı	<b>91</b> :	ical			AI IAI	DEQU DEQU	JATE JATE	2	[		]	
REMARKS: A SINGLE VEHICLE/ LIFE/VEH	MI	SS: LE	ION. . N	FA] O "RI	LUR EADI	E Ly	$\cap F$	SEC	וחי	תמ	יידיד	AUS:	E C(	LOUI	DSS LD (	OF CAUS	SE	L	os	s ·	OF

ASSESSM ASSESSM NASA FM	ENT ENT EA	' I	ATE: D:	2/03 MECH 05-6	/88 /KE EH-	D- 56	450 060	8 -6					IASA DA BASELI N		[			
SUBSYSTI MDAC ID ITEM:	EM:			MECH, 4508 +28V												-	-	
LEAD AND	ALY	ST	:	A.D.	MO	NT	GOMI	ERY										
ASSESSMI	ENT	:																
	CR	IT: F:	ICAL LIGH	ITY T		R	EDUI	NDAN	CY	SCI	REEN	S			CI			
	]			NC		A			В			С			II	EN	1	
NASA IOA	[ [	2	/1R /2R	]	[	P P	]	[	N# F	<b>A</b> ]	[	P P	]		[	X X	]	*
COMPARE	[	N	/N	]	[		]	(	N	]	[		]		[		]	
RECOMMEN	DA'	CIC	ons:	(If	đ	Ĺf	fere	nt 1	rc	m N	ASA)	)						
	[	3	/1R	]	[	P	]	£	F	]	[	P		(AD	[ D/			TE)
* CIL RE	TEN	ΙΤΙ	ON F	NOITAS	ALF	:	(If	app	li	cab	le)							
REMARKS:												IAL	EQUATE EQUATE		[ [		] ]	
A SINGLE VEHICLE/ LIFE/VEH REDUNDAN	ICL	E.	.ON . NO	FAIL! REA!!	URE DII		)FS	をとして	ח	TOP	M 00	TTT	D 03110	E I	LO: SS	ss o	O: F	F

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	05-6EH-5606	0-6	NASA DATA: BASELINE [ ] NEW [ X ]			
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD/EP 4510 +28V CONTAC	T #2				
LEAD ANALYST:	A.D. MONTGO	MERY				
ASSESSMENT:	DE	DUNDANCY SCREEN	ıs	CIL		
CRITICA FLIGH HDW/F	HT _	В	С	ITEM		
NASA [ 2 /1] IOA [ 3 /2	R ] [ P	] [ NA] ] [ F ]	[ P ] [ P ]	[ X ] *		
COMPARE [ N /N	, j	] [N]	[ ]	[ ]		
RECOMMENDATIONS	: (If dif	ferent from NAS				
	LR ] [ P	] [F]	[ P ]	[ A ] ADD/DELETE)		
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ ]  INADEQUATE [ ]						
REMARKS: A SINGLE SWITCH POLE SHORT WOULD NOT CAUSE LOSS OF VEHICLE/MISSION. FAILURE OF SECOND ITEM COULD CAUSE LOSS OF LIFE/VEHICLE. NO "READILY APPARENT" INDICATION OF LOSS OF REDUNDANT HARDWARE FOUND.						

	MENT DATE: MENT ID: MEA #:	MECH/K	8 BD-4512 -56060-	6	NASA DA BASELI	NE [ ]
SUBSYST MDAC ID ITEM:	TEM: ):	MECH/KI 4512 +28V CC	BD/EPD&		V	EW [ x j
LEAD AN	ALYST:	A.D. MC	NTGOME F	R <b>Y</b>		
ASSESSM	ENT:					
	CRITICALI FLIGHT		REDUND	ANCY SCR	EENS	CIL
	HDW/FUN		A	В	С	ITEM
nasa Ioa	[ 2 /1R [ 3 /2R	] [	P ] P ]	[ NA] [ F ]	[ P ] [ P ]	[ X ] *
COMPARE	[ N /N ]	] [	1	[и]	[ ]	[ x j
RECOMMEN	DATIONS:	(If di	fferent	from NA	SA)	
	[ 3 /1R ]	•		[ F ]	[ P ]	[ A ]
* CIL RETENTION RATIONALE: (If applicable)						
REMARKS: A SINGLE VEHICLE (M	SWITCH POI	LE SHORT	. MOUID	NOT CAUC		[ ]
A SINGLE SWITCH POLE SHORT WOULD NOT CAUSE LOSS OF VEHICLE/MISSION. FAILURE OF SECOND ITEM COULD CAUSE LOSS OF LIFE/VEHICLE. NO "READILY APPARENT" INDICATION OF LOSS OF REDUNDANT HARDWARE FOUND.						

ASSESSME ASSESSME NASA FME	NT NT A	DA ID	TE:	2/03/ MECH/ 05-61	/88 /KBI EH-5	)-4 560	1514 160-	4 -6							SA DATA BASELINI NE	E				
SUBSYSTE MDAC ID: ITEM:	M:			MECH/ 4514 +28V																
LEAD ANA	LYS	ST:	:	A.D.	MON	TC	OM	ERY												
ASSESSME	NT:	:																		
	CR		CALI	LTY L		RI	EDU	NDA	N	CY	sc	REE	NS	5				L EN		
	I	HDW	/FUI	NC		A				В				С						
NASA IOA	[ [	2	/1R /2R	]	[ [	P P	]		]	N# F	]		[	P P	]		]	X X	]	*
COMPARE	[	N	/N	3	[		]		[	N	]		[		]		[		]	
RECOMMEN	IDA!	ric	ons:	(I	f d	if	fer	ent	: :	fro	om	NAS	A)	)						
	[	3	/1R	]	[	P	]		[	F	]		[	P	] (				) ELI	ETE)
* CIL RE	e <b>te</b> i	NT:	ION 1	RATIO	NAL	E:	(I	f a	p]	pl:	Lca	able		IA IAV	DEQUATE DEQUATE	E	]		]	
REMARKS: A SINGLE VEHICLE/ LIFE/VEH REDUNDAN	S S' MI:	SS: LE	ION. . N	FAI O "RE	LUR ADI	E (	OF	SEC	:0	ND	IJ	CEM	E	L	OSS OF LD CAUS	SΕ	L	oss	s (	OF

APPENDIX D

CRITICAL ITEMS

# APPENDIX D POTENTIAL CRITICAL ITEMS

NASA FMEA	MDAC-ID	ITEM	FAILURE MODE
02-4-052000-1	1101	MOTOR	FAILS TO OPERATE
02-4-052000-4	1101	MOTOR	FAILS TO OPERATE
02-4-054000-1	1104	PRESSURE LINE	LEAKAGE
	1105	PROBE	JAMMED
	1106	PROBE	CLOGGED PORT
	1107	SHAFT	BROKEN
	1108	SHAFT	BENT
05-6EE-2002-1	1500	+28V CONTACT #1	FAILS SHORTED
05-6EE-2002-2	1500	+28V CONTACT #1	FAILS SHORTED
05-6EE-2002-1	1501	+28V CONTACT #1	FAILS OPEN
05-6EE-2002-2	1501	+28V CONTACT #1	FAILS OPEN
05-6EE-2002-1	1502	+28V CONTACT #2	FAILS SHORTED
05-6EE-2002-2	1502	+28V CONTACT #2	FAILS SHORTED
05-6EE-2002-1	1503	+28V CONTACT #2	FAILS OPEN
05-6EE-2002-2	1503	+28V CONTACT #2	FAILS OPEN
05-6EE-2002-1	1504	+28V CONTACT #3	FAILS SHORTED
05-6EE-2002-2	1504	+28V CONTACT #3	FAILS SHORTED
05-6EE-2002-1	1505	+28V CONTACT #3	FAILS OPEN
05-6EE-2002-2	1505	+28V CONTACT #3	FAILS OPEN
05-6EE-2002-1	1506	+28V CONTACT #4	FAILS SHORTED
05-6EE-2002-2	1506	+28V CONTACT #4	FAILS SHORTED
05-6EE-2002-1	1507	+28V CONTACT #4	FAILS OPEN
05-6EE-2002-2 05-6EE-2002-1	1507 1508	+28V CONTACT #4 +28V CONTACT #1	FAILS OPEN
05-6EE-2002-2	1508	+28V CONTACT #1	FAILS SHORTED
05-6EE-2002-2	1508	+28V CONTACT #1	FAILS SHORTED
05-6EE-2002-1	1509	+28V CONTACT #1	FAILS OPEN FAILS OPEN
05-6EE-2002-1	1510	+28V CONTACT #2	FAILS OPEN FAILS SHORTED
05-6EE-2002-2	1510	+28V CONTACT #2	FAILS SHORTED
05-6EE-2002-1	1511	+28V CONTACT #2	FAILS OPEN
05-6EE-2002-2	1511	+28V CONTACT #2	FAILS OPEN
05-6EE-2002-1	1512	+28V CONTACT #3	FAILS SHORTED
05-6EE-2002-2	1512	+28V CONTACT #3	FAILS SHORTED
05-6EE-2002-1	1513	+28V CONTACT #3	FAILS OPEN
05-6EE-2002-2	1513	+28V CONTACT #3	FAILS OPEN
05-6EE-2002-1	1514	+28V CONTACT #4	FAILS SHORTED
05-6EE-2002-2	1514	+28V CONTACT #4	FAILS SHORTED
05-6EE-2002-1	1515	+28V CONTACT #4	FAILS OPEN
05-6EE-2002-2	1515	+28V CONTACT #4	FAILS OPEN
05-6EE-2002-1	1516	+28V CONTACT #1	FAILS SHORTED
05-6EE-2002-2	1516	+28V CONTACT #1	FAILS SHORTED
05-6EE-2002-1	1517	+28V CONTACT #1	FAILS OPEN
05-6EE-2002-2	1517	+28V CONTACT #1	FAILS OPEN
05-6EE-2002-1	1518	+28V CONTACT #2	FAILS SHORTED
05-6EE-2002-2	1518	+28V CONTACT #2	FAILS SHORTED

NASA FMEA	MDAC-ID	ITEM	FAILURE MODE
			FAILS OPEN
05-6EE-2002-1	1519	+28V CONTACT #2	FAILS OPEN
05-6EE-2002-2	1519	+28V CONTACT #2	FAILS SHORTED
05-6EE-2002-1	1520	+28V CONTACT #3	FAILS SHORTED
05-6EE-2002-2	1520	+28V CONTACT #3	FAILS OPEN
05-6EE-2002-1	1521	+28V CONTACT #3	FAILS OPEN
05-6EE-2002-2	1521	+28V CONTACT #3	FAILS SHORTED
05-6EE-2002-1	1522	+28V CONTACT #4	FAILS SHORTED
05-6EE-2002-2	1522	+28V CONTACT #4	FAILS OPEN
05-6EE-2002-1	1523	+28V CONTACT #4	FAILS OPEN
05-6EE-2002-2	1523	+28V CONTACT #4	FAILS SHORTED
05-6EE-2002-1	1532	+28V CONTACT #1	FAILS SHORTED
05-6EE-2002-2	1532	+28V CONTACT #1	FAILS OPEN
05-6EE-2002-2	1533	+28V CONTACT #1	FAILS OPEN
05-6EE-2002-1	1534	+28V CONTACT #1	FAILS SHORTED
05-6EE-2002-1	1534	+28V CONTACT #2	FAILS SHORTED
05-6EE-2002-2	1534	+28V CONTACT #2	FAILS OPEN
05-6EE-2002-1	1535	+28V CONTACT #2	FAILS OPEN
05-6EE-2002-2	1535	+28V CONTACT #2	FAILS SHORTED
05-6EE-2002-1	1536	+28V CONTACT #3	FAILS SHORTED
05-6EE-2002-2	1536	+28V CONTACT #3	FAILS OPEN
05-6EE-2002-1	1537	+28V CONTACT #3	FAILS OPEN
05-6EE-2002-2	1537	+28V CONTACT #3	FAILS SHORTED
05-6EE-2002-1	1538	+28V CONTACT #4	FAILS SHORTED
05-6EE-2002-2	1538	+28V CONTACT #4	FAILS OPEN
05-6EE-2002-1	1539	+28V CONTACT #4	FAILS OPEN
05-6EE-2002-2	1539	+28V CONTACT #4 +28V CONTACT #1	FAILS SHORTED
05-6EE-2002-1	1540	· <del></del>	FAILS SHORTED
05-6EE-2002-2	1540	, <b>_</b>	FAILS OPEN
05-6EE-2002-1	1541	+28V CONTACT #1 +28V CONTACT #1	FAILS OPEN
05-6EE-2002-2	1541	+28V CONTACT #1 +28V CONTACT #2	FAILS SHORTED
05-6EE-2002-1	1542	+28V CONTACT #2	FAILS SHORTED
05-6EE-2002-2	1542	+28V CONTACT #2	FAILS OPEN
05-6EE-2002-1	1543	+28V CONTACT #2	FAILS OPEN
05-6EE-2002-2	1543	+28V CONTACT #2 +28V CONTACT #3	FAILS SHORTED
05-6EE-2002-1	1544	+28V CONTACT #3	FAILS SHORTED
05-6EE-2002-2	1544 1545	+28V CONTACT #3	FAILS OPEN
05-6EE-2002-1		+28V CONTACT #3	FAILS OPEN
05-6EE-2002-2	1545	+28V CONTACT #4	FAILS SHORTED
05-6EE-2002-1	1546	+28V CONTACT #4	FAILS SHORTED
05-6EE-2002-2	1546 1547	+28V CONTACT #4	FAILS OPEN
05-6EE-2002-1	1547	+28V CONTACT #4	FAILS OPEN
05-6EE-2002-2	1547	+28V CONTACT #1	FAILS SHORTED
05-6EE-2002-1	1548	+28V CONTACT #1	FAILS SHORTED
05-6EE-2002-2	1549	+28V CONTACT #1	FAILS OPEN
05-6EE-2002-1	1549	+28V CONTACT #1	FAILS OPEN
05-6EE-2002-2	1550	+28V CONTACT #2	FAILS SHORTED
05-6EE-2002-1	1550	+28V CONTACT #2	FAILS SHORTED
05-6EE-2002-2	1551	+28V CONTACT #2	FAILS OPEN
05-6EE-2002-1 05-6EE-2002-2	1551	+28V CONTACT #2	FAILS OPEN
UD-0FF-5007-5	1001		

NASA FMEA	MDAC-ID	ITEM	FAILURE MODE
05 (PP 2000 1	1550		
05-6EE-2002-1	1552		FAILS SHORTED
05-6EE-2002-2 05-6EE-2002-1	1552	+28V CONTACT #3	FAILS SHORTED
05-6EE-2002-1	1553	+28V CONTACT #3	FAILS OPEN
05-6EE-2002-2 05-6EE-2002-1	1553	+28V CONTACT #3	FAILS OPEN
05-6EE-2002-1	1554	+28V CONTACT #4	FAILS SHORTED
05-6EE-2002-2	1554 1555	+28V CONTACT #4	FAILS SHORTED
05-6EE-2002-2	1555	+28V CONTACT #4	FAILS OPEN
05-6EE-2017-2	1588	+28V CONTACT #4	FAILS OPEN
05-6EE-2017-1	1589	AND GATE	FAILS SHORTED
05-6EE-2017-1	1599	AND GATE	FAILS OPEN
05-6EE-2017-1	1590	TIME DELAY TIME DELAY	FAILS SHORTED
05-6EE-2017-2	1591		FAILS OPEN
05-6EE-2017-1	1592	SOLID STATE DRIVER	FAILS SHORTED
05-6EE-2016-2	1594	SOLID STATE DRIVER	FAILS OPEN
05-6EE-2016-1	1595	REMOTE POWER CONTROLL REMOTE POWER CONTROLL	FAILS SHORTED
05-6EE-2016-2		REMOTE POWER CONTROLL	FAILS OPEN
05-6EE-2016-1		REMOTE POWER CONTROLL	FAILS SHORTED
05-6EE-2016-2		REMOTE POWER CONTROLL	FAILS OPEN
05-6EE-2016-1		REMOTE POWER CONTROLL	FAILS SHORTED
05-6EE-2015-2		SWITCH RELAY	
05-6EE-2015-2		LATCH RELAY	FAILS SHORTED
02-2D/4-E100-1		ROD ASSEMBLY	FAILS SHORTED
02-2D/4-E100-1	2101	ROD ASSEMBLY	PHYSICAL BINDING
02-2D/4-E100-1	2102	ROD ASSEMBLY BELLCRANK	PHYSICAL BINDING PHYSICAL BINDING
02-2D/4-E100-1	2103	BELLCRANK	PHYSICAL BINDING PHYSICAL BINDING
02-2D/4-E100-1	2104	BOLT	PHYSICAL BINDING PHYSICAL BINDING
02-2D/4-E100-1	2105	BOLT	PHYSICAL BINDING
02-4D-014600-1	3101	CENTERLINE LATCH MOTO	FAILS TO START
02-4D-014600-1	3103	CENTERLINE MOTOR CLUT	FAILS TO DISENGAG
02-4D-014600-1 02-4D-014600-3 02-4D-014600-1 02-4D-014000-3	3104	CENTERLINE MOTOR BRAK	FAILS TO ENGAGE
02-4D-014600-1	3105	CENTERLINE MOTOR BRAK	FAILS TO DISENGAG
02-4D-014000-3	3106	CENTERLINE LATCH DIFF	PHYSICAL BINDING
02-40-014600-1	3107	CENTERLINE LATCH DIFF	PARTIAL OUTPUT
02-4D-014000-1	3108	CENTERLINE LATCH	PHYSICAL BINDING
02-4D-14700-2	3109	CENTERLINE LATCH LIMI	PREMATURE OPER
02-4D-012600-1	3111	DOOR CLOSURE MOTOR	FAILS TO START
02-4D-012600-1	3113	DOOR CLOSURE MOTOR CL	FAILS TO DISENGAG
02-4D-012600-3	3114	DOOR CLOSURE MOTOR BR	FAILS TO ENGAGE
02-4D-012600-1	3115	DOOR CLOSURE MOTOR BR	FAILS TO DISENGAG
02-4D-012000-1	3116	TORQUE LIMIT CLUTCH/D	PHYSICAL BINDING
02-4D-012600-5	3116	TORQUE LIMIT CLUTCH/D	PHYSICAL BINDING
02-4D-013600-5	3116	TORQUE LIMIT CLUTCH/D	PHYSICAL BINDING
02-4D-012600-1	3117	TORQUE LIMIT CLUTCH/D	PARTIAL OUTPUT
02-4D-012600-4	3117	TORQUE LIMIT CLUTCH/D	PARTIAL OUTPUT
02-4D-013600-4	3117	TORQUE LIMIT CLUTCH/D	PARTIAL OUTPUT
02-4D-013600-5	3117	TORQUE LIMIT CLUTCH/D	PARTIAL OUTPUT
02-4D-012100-1	3119	DOOR LINKAGE ASSEMBLY	LINKAGE BROKEN
02-4D-012100-2	3120	HINGE LINKAGE ASSEMBL	PHYSICAL BINDING
02-4D-012100-1	3121	HINGE LINKAGE ASSEMBL	LINKAGE BROKEN

NASA FMEA	MDAC-ID	ITEM	FAILURE MODE
NADA IIIDI		# # - <del></del>	
02-4D-012100-2	3122	DOOR CLOSURE TORQUE T	PHYSICAL BINDING
02-4D-012100-1	3123	DOOR CLOSURE TORQUE T	TORQUE TUBE BROKE
02-4D-012700-2	3124	DOOR CLOSURE LIMIT SW	PREMATURE OPER PHYSICAL BINDING
02-4D-012100-2	3126	DOOR HINGE	PHYSICAL BINDING
02-4D-012100-1	3127	DOOR HINGE	STRUCTURAL FAILUR BROKEN OFF DOOR
02-4D-013300-2	3128	DOOR UPLATCH ROLLER	DAMAGED ON ASCENT
02-4D-013300-2	3129	UMBILICAL DOOR	FAILS TO START
02-4D-013600-1	3130	UPLOCK LATCH MOTOR	FAILS TO START
02-4D-013600-5	3131	UPLATCH MOTOR CLUTCH	FAILS TO ENGAGE
02-4D-013600-1	3132	UPLATCH MOTOR CLUTCH	FAILS TO DISENGAG
02-4D-013600-5	3132	UPLATCH MOTOR CLUTCH	FAILS TO DISENGAGE
02-4D-013600-3	3133	UPLATCH MOTOR BRAKE	FAILS TO DISENGAG
02-4D-013600-1	3134	UPLATCH MOTOR BRAKE	PHYSICAL BINDING
02-4D-012600-5	3135	TORQUE LIMIT CLUTCH/D	PHYSICAL BINDING
02-4D-013000-1	3135	TORQUE LIMIT CLUTCH/D	PARTIAL OUTPUT
02-4D-012600-5	3136	TORQUE LIMIT CLUTCH/D	PARTIAL OUTPUT
02-4D-013600-1	3136	TORQUE LIMIT CLUTCH/D	PHYSICAL BINDING
02-4D-013300-1	3137	UPLATCH TORQUE TUBE A	TORQUE TUBE BROKE
02-4D-013300-2	3138	UPLATCH TORQUE TUBE A	PHYSICAL BINDING
02-4D-013300-1	3139	INBOARD UPLOCK LATCH	BROKEN/UNATTACHED
02-4D-013300-2	3140	INBOARD UPLOCK LATCH	PHYSICAL BINDING
02-4D-013300-1	3141	UPLOCK LATCH MECHANIS	BROKEN/UNATTACHED
02-4D-013300-2	3142	UPLOCK LATCH MECHANIS	PREMATURE OPER
02-4D-013700-2	3143	READY TO LATCH LIMIT	FAILS TO CLOSE
05-6ED-2126-2	3501	RELAY	FAILS TO CLOSE
05-6ED-2127-1	3501	RELAY	FAILS TO CLOSE
05-6ED-2127-2	3501	RELAY	FAILS TO CLOSE
05-6ED-2129-1	3501	RELAY	FAILS TO CLOSE
05-6ED-2130-2	3501	RELAY	FAILS TO CLOSE
05-6ED-2131-1	3501	RELAY	FAILS TO CLOSE
05-6ED-2131-2	3501	RELAY	FAILS TO CLOSE
05-6ED-2132-2	3501	RELAY RELAY	FAILS TO OPEN
05-6ED-2127-1	3502	RELAY	FAILS TO OPEN
05-6ED-2127-2	3502	RELAY	FAILS TO CLOSE
05-6ED-2126-2	3503 3503	RELAY	FAILS TO CLOSE
05-6ED-2129-1	3503 3503	RELAY	FAILS TO CLOSE
05-6ED-2130-2	3503 3503	RELAY	FAILS TO CLOSE
05-6ED-2131-1	3503	RELAY	FAILS TO CLOSE
05-6ED-2131-2	3503	RELAY	FAILS TO CLOSE
05-6ED-2132-2	3505	ET UMBILICAL DOOR MOD	FAILS TO SWITCH
05-6ED-2026-3	3505	ET UMBILICAL DOOR MOD	FAILS TO SWITCH
05-6ED-2026-4	3506	ET UMBILICAL DOOR MOD	FAILS TO SWITCH
05-6ED-2026-3	3506	ET UMBILICAL DOOR MOD	FAILS TO SWITCH
05-6ED-2026-4 05-6ED-2027-2	3507	CENTELRINE LATCH-STOW	FAILS TO SWITCH
05-6ED-2027-2 05-6ED-2027-3	3507	CENTELRINE LATCH-STOW	FAILS TO SWITCH
05-6ED-2027-2	3508	CENTELRINE LATCH-STOW	FAILS TO SWITCH FAILS TO SWITCH
05-6ED-2027-3	3508	CENTELRINE LATCH-STOW	FAILS TO SWITCH
05-6ED-2028-3	3509	ET UMBILICAL DOOR OPE	FAILS TO SWITCH
05-6ED-2030-3	3509	ET UMBILICAL DOOR OPE	FAILS TO SWITCH
05-6ED-2028-3	3510	ET UMBILICAL DOOR OPE	TAILS TO SWITCH

NASA FMEA	MDAC-ID	Tmme	
		ITEM	FAILURE MODE
05-6ED-2030-3	3510	ET UMBILICAL DOOR OPE	
05-6ED-2250-1	3522	Children Dook Ope	
05-6ED-2251A-1	3522		OPEN CIRCUIT
05-6ED-2251A-2	3522		OPEN CIRCUIT
05-6ED-2251B-2	3522		OPEN CIRCUIT
05-6ED-2252-2	3522		OPEN CIRCUIT
05-6ED-2252B-2	3522		OPEN CIRCUIT
05-6ED-2257-2	3522	DIODE	OPEN CIRCUIT
05-6ED-2251A-1	3523	DIODE	OPEN CIRCUIT
05-6ED-2251A-2	3523	DIODE	SHORTED OUT
05-6ED-2251B-2	3523	DIODE	SHORTED OUT
05-6ED-2252-2	3523	DIODE	SHORTED OUT
05-6ED-2252B-2	3523	DIODE	SHORTED OUT
05-6ED-2252C-2	3523	DIODE	SHORTED OUT
05-6ED-2255-2	3523	DIODE	SHORTED OUT
05-6ED-2257-2	3523	DIODE	SHORTED OUT
05-6ED-2257A-2	3523	DIODE	SHORTED OUT
05-6EH-56060-6	4500	+28V CONTACT #1	SHORTED OUT
05-6EH-56060-1		+28V CONTACT #1	FAILS SHORTED FAILS OPEN
05-6EH-56060-3		+28V CONTACT #1	FAILS OPEN
05-6EH-56060-6		+28V CONTACT #2	FAILS SHORTED
05-6EH-56060-1		+28V CONTACT #2	FAILS OPEN
05-6EH-56060-3		+28V CONTACT #2	FAILS OPEN
05-6EH-56060-6		+28V CONTACT #3	FAILS SHORTED
05-6EH-56060-1 05-6EH-56060-3	4505	+28V CONTACT #3	FAILS OPEN
05-6EH-56060-6	4505	+28V CONTACT #3	FAILS OPEN
05-6EH-56060-1	4506	+28V CONTACT #4	FAILS SHORTED
05-6EH-56060-3	4507 4507	+28V CONTACT #4	FAILS OPEN
05-6EH-56060-6	4507	+28V CONTACT #4	FAILS OPEN
05-6EH-56060-1	4508	+28V CONTACT #1	FAILS SHORTED
	4509	+28V CONTACT #1	FAILS OPEN
05-6EH-56060-3 05-6EH-56060-6	4509	+28V CONTACT #1	FAILS OPEN
05-6EH-56060-1	4511	+28V CONTACT #2	FAILS SHORTED
05-6EH-56060-3	4511	+28V CONTACT #2	FAILS OPEN
05-6EH-56060-6	4512	+28V CONTACT #2 +28V CONTACT #3	FAILS OPEN
05-6EH-56060-1	4513	+28V CONTACT #3	FAILS SHORTED
05-6EH-56060-3	4513	+28V CONTACT #3	FAILS OPEN
05-6EH-56060-6	4514	+28V CONTACT #4	FAILS OPEN
05-6EH-56060-1	4515	+28V CONTACT #4	FAILS SHORTED
05-6EH-56060-3	4515	+28V CONTACT #4	FAILS OPEN
05-6EH-56000-4	4516	+28V CONTACT #1	FAILS OPEN
05-6EH-56000-1		+28V CONTACT #1	FAILS SHORTED
05-6EH-56000-3	4517	+28V CONTACT #1	FAILS OPEN
05-6EH-56000-4		+28V CONTACT #2	FAILS OPEN
05-6EH-56000-1	4519	+28V CONTACT #2	FAILS SHORTED
05-6EH-56000-3	4519	+28V CONTACT #2	FAILS OPEN FAILS OPEN
05-6EH-56000-4	4520	+28V CONTACT #3	FAILS OPEN FAILS SHORTED
05-6EH-56000-1	4521	+28V CONTACT #3	FAILS SHORTED
		•	OPEN

NASA FMEA	MDAC-ID	ITEM	FAILURE MODE
			FAILS OPEN
05-6EH-56000-3	4521	+28V CONTACT #3	FAILS OPEN FAILS SHORTED
05-6EH-56000-4	4522	+28V CONTACT #4	FAILS OPEN
05-6EH-56000-1	4523	+28V CONTACT #4	FAILS OPEN
05-6EH-56000-3	4523	+28V CONTACT #4	FAILS OPEN FAILS SHORTED
05-6EH-56000-4	4524	+28V CONTACT #1	FAILS OPEN
05-6EH-56000-1	4525	+28V CONTACT #1	FAILS OPEN
05-6EH-56000-3	4525	+28V CONTACT #1	FAILS OPEN FAILS SHORTED
05-6EH-56000-4	4526	+28V CONTACT #2	FAILS OPEN
05-6EH-56000-1	4527	+28V CONTACT #2	FAILS OPEN
05-6EH-56000-3	4527	+28V CONTACT #2	FAILS SHORTED
05-6EH-56000-4	4528	+28V CONTACT #3	FAILS OPEN
05-6EH-56000-1	4529	+28V CONTACT #3	FAILS OPEN
05-6EH-56000-3	4529	+28V CONTACT #3	FAILS SHORTED
05-6EH-56000-4	4530	+28V CONTACT #4	FAILS OPEN
05-6EH-56000-1	4531	+28V CONTACT #4	FAILS OPEN
05-6EH-56000-3	4531	+28V CONTACT #4	FAILS OPEN FAILS SHORTED
05-6EH-56000-4	4532	+28V CONTACT #1	FAILS SHORTED FAILS OPEN
05-6EH-56000-1	4533	+28V CONTACT #1	
05-6EH-56000-3	4533	+28V CONTACT #1	FAILS OPEN FAILS SHORTED
05-6EH-56000-4	4534	+28V CONTACT #2	
05-6EH-56000-1	4535	+28V CONTACT #2	FAILS OPEN
05-6EH-56000-3	4535	+28V CONTACT #2	FAILS OPEN
05-6EH-56000-4	4536	+28V CONTACT #3	FAILS SHORTED
05-6EH-56000-1	4537	+28V CONTACT #3	FAILS OPEN
05-6EH-56000-3	4537	+28V CONTACT #3	FAILS OPEN
05-6EH-56000-4	4538	+28V CONTACT #4	FAILS SHORTED
05-6EH-56000-1	4539	+28V CONTACT #4	FAILS OPEN
05-6EH-56000-3	4539	+28V CONTACT #4	FAILS OPEN FAILS TO DEPLOY
05-6EH-56000-1	4540	TALKBACK	FAILS TO DEPLOY
05-6EH-56000-3	4540	TALKBACK	FAILS TO BEREERPO
05-6EH-56000-1	4541	TALKBACK	
05-6EH-56000-3	4541	TALKBACK	FAILS TO BARBERPO
05-6EH-56000-1	4542	TALKBACK	FAILS TO STOW
05-6EH-56000-3	4542	TALKBACK	FAILS TO STOW
05-6EH-56021-2	4545	AND GATE #2	FAILS SHORTED
05-6EH-56020-2	4547	AND GATE #1	FAILS SHORTED
05-6EH-56020-2	4549	AND GATE #2	FAILS SHORTED
05-6EH-56021-2	4551	AMP #1	FAILS SHORTED
05-6EH-56021-2	4553	AMP #2	FAILS SHORTED
05-6EH-56020-2	4555	AMP #1	FAILS SHORTED
05-6EH-56020-2	4557	AMP #2	FAILS SHORTED
05-6EH-56021-2	4559	K14	FAILS SHORTED
05-6EH-56021-2	4561	K68	FAILS SHORTED
05-6EH-56020-2	4563	K72	FAILS SHORTED
05-6EH-56020-2	4565	K70	FAILS SHORTED
05-6EH-56021-2	4567	STOW MICROSWITCH #1	FAILS SHORTED
05-6EH-56020-2	4569	DEPLOY MICROSWITCH #1	FAILS SHORTED
05-6EH-56021-2	4571	AND GATE #1	FAILS SHORTED
05-6EH-56021-2	4573	AND GATE #2	FAILS SHORTED

NASA FMEA	MDAC-ID	ITEM	FAILURE MODE
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05-6EH-56020-2	4575	AND GATE #1	FAILS SHORTED
05-6EH-56020-2	4577	AND GATE #2	FAILS SHORTED
05-6EH-56021-2	4579	AMP #1	FAILS SHORTED
05-6EH-56021-2	4581	AMP #2	FAILS SHORTED
05-6EH-56020-2	4583	AMP #1	FAILS SHORTED
05-6EH-56020-2	4585	AMP #2	FAILS SHORTED
05-6EH-56021-2	4587	K25	FAILS SHORTED
05-6EH-56021-2	4589	K2	FAILS SHORTED
05-6EH-56020-2	4592	K27	FAILS SHORTED
05-6EH-56020-2	4594	K37	FAILS SHORTED
05-6EH-56021-2	4596	STOW MICROSWITCH #2	FAILS SHORTED
05-6EH-56020-2	4598	DEPLOY MICROSWITCH #2	FAILS SHORTED
02-4B-001-2	5101	CENTERLINE/BULKHEAD L	LOSS OF OUTPUT
02-4B-002-3	5101	CENTERLINE/BULKHEAD L	LOSS OF OUTPUT
02-4B-005-1	5101	CENTERLINE/BULKHEAD L	LOSS OF OUTPUT
02-4B-002-1	5102	CENTERLINE/BULKHEAD L	FAILS TO ENGAGE
02-4B-101-1	5102	CENTERLINE/BULKHEAD L	FAILS TO ENGAGE
02-4B-001-1	5104	CENTERLINE/BULKHEAD L	FAILS TO DISENGAG
02-4B-002-1	5104	CENTERLINE/BULKHEAD L	FAILS TO DISENGAG
02-4B-005-4	5105	CENTERLINE/BULKHEAD L	FAILS TO ENGAGE
02-4B-005-6	5105	CENTERLINE/BULKHEAD L	FAILS TO ENGAGE
02-4B-001-1	5106	CENTERLINE/BULKHEAD L	SLIPS
02-4B-002-1	5106	CENTERLINE/BULKHEAD L	SLIPS
02-4B-001-2	5107	CENTERLINE/BULKHEAD L	LOSS OF OUTPUT
02-4B-002-1	5107	CENTERLINE/BULKHEAD L	LOSS OF OUTPUT
02-4B-002-3 02-4B-001-1	5107	CENTERLINE/BULKHEAD L	LOSS OF OUTPUT
02-4B-001-1 02-4B-001-2	5108 5108	CENTERLINE/BULKHEAD L	PARTIAL OUTPUT
02-4B-001-2 02-4B-002-1	5108	CENTERLINE/BULKHEAD L CENTERLINE/BULKHEAD L	PARTIAL OUTPUT
02-4B-002-3	5108	CENTERLINE/BULKHEAD L	PARTIAL OUTPUT
02-4B-002-1	5109	CENTERLINE/BULKHEAD L	PARTIAL OUTPUT
02-4B-006-4	5109	CENTERLINE/BULKHEAD L	PHYSICAL BINDING PHYSICAL BINDING
02-4B-002-1	5110	CENTERLINE/BULKHEAD T	FAILS TO OPERATE
02-4B-006-2	5111	CENTERLINE/BULKHEAD T	FAILS OUT OF TOL
02-4B-007-1	5111	CENTERLINE/BULKHEAD T	FAILS OUT OF TOL
02-4B-007-3	5111	CENTERLINE/BULKHEAD T	FAILS OUT OF TOL
02-4B-007-2	5112	CENTERLINE/BULKHEAD T	FAILS OUT OF TOL
02-4B-007-4	5112	CENTERLINE/BULKHEAD T	FAILS OUT OF TOL
02-4B-001-2	5113	CENTERLINE/BULKHEAD G	FAILS TO TRANSFER
02-4B-002-1	5113	CENTERLINE/BULKHEAD G	FAILS TO TRANSFER
02-4B-002-3	5113	CENTERLINE/BULKHEAD G	FAILS TO TRANSFER
02-4B-006-5	5113	CENTERLINE/BULKHEAD G	FAILS TO TRANSFER
02-4B-002-1	5114	CENTERLINE/BULKHEAD G	PHYSICAL BINDING
02-4B-001-2	5115	CENTERLINE/BULKHEAD G	PARTIAL OUTPUT
02-4B-002-1	5115	CENTERLINE/BULKHEAD G	PARTIAL OUTPUT
02-4B-002-3	5115	CENTERLINE/BULKHEAD G	PARTIAL OUTPUT
02-4B-006-5	5115	CENTERLINE/BULKHEAD G	PARTIAL OUTPUT
02-4B-003-2	5119	CENTERLINE/BULKHEAD C	PREMATURE OPER
02-4B-112-1	5120	CENTERLINE LATCH GANG	BROKEN

NASA FMEA	MDAC-ID	ITEM	FAILURE MODE
		and and	PHYSICAL BINDING
02-4B-002-1	5121	CENTERLINE LATCH GANG	PHYSICAL BINDING
02-4B-002-1	5122	CENTERLINE LATCH ASSE	PHYSICAL BINDING
02-4B-006-1	5122	CENTERLINE LATCH ASSE	BROKEN COMPONENT
02-4B-113-1	5123	CENTERLINE LATCH ASSE	BROKEN COMPONENT
02-4B-113-2	5123	CENTERLINE LATCH ASSE	BROKEN COMPONENT
02-4B-114-1	5123	CENTERLINE LATCH ASSE	LATCH HOOK FAILS
02-4B-113-1	5124	CENTERLINE LATCH ASSE	PHYSICAL BINDING
02-4B-110-1	5125	CENTERLINE LATCH ROLL	BROKEN
02-4B-110-1	5126	CENTERLINE LATCH ROLL	FAILS TO ENGAGE
02-4B-403-1	5127	PBD SHEAR FITTING ROL	BROKEN
02-4B-403-1	5128	PBD SHEAR FITTING ROL	BROKEN
02-4B-403-2	5128	PBD SHEAR FITTING ROL	PHYSICAL BINDING
02-4B-403-1	5129	PBD SHEAR FITTING ROL	FAILS TO ENGAGE
02-4B-403-1	5130	PBD SHEAR FITTING CLA PBD SHEAR FITTING CLA	BROKEN
02-4B-403-1	5131	PBD SHEAR FITTING CLA	BROKEN
02-4B-403-2	5131	PBD SHEAR FITTING CLA	BENT
02-4B-403-1	5132	BULKHEAD LATCH GANG B	PHYSICAL BINDING
02-4B-001-1	5133	BULKHEAD LATCH GANG B	BROKEN
02-4B-106-1	5134	BULKHEAD PUSH-PULL RO	PHYSICAL BINDING
02-4B-001-1	5135	BULKHEAD PUSH-PULL RO	BROKEN
02-4B-099-1	5136	BULKHEAD LATCH LINKAG	PHYSICAL BINDING
02-4B-001-1	5137	BULKHEAD LATCH LINKAG	BROKEN
02-4B-008-1	5138	BULKHEAD LATCH LINKAG	BROKEN
02-4B-008-2	5138	BULKHEAD LATCH LINKAG	BROKEN
02-4B-107-1	5138	BULKHEAD LATCH LINKAG	BROKEN
02-4B-108-1	5138	BULKHEAD LATCH LINKAG	FAILS TO LATCH
02-4B-008-1	5139	BULKHEAD ROLLER ASSEM	PHYSICAL BINDING
02-4B-001-1	5140	BULKHEAD READY-TO-LAT	PREMATURE OPER
02-4B-140-2	5145	PAYLOAD BAY DOOR DRIV	LOSS OF OUTPUT
02-4B-203-1	5146	TOTAL TOTAL	FAILS TO ENGAGE
02-4B-203-1	5147	DOOD DDTV	FAILS TO DISENGAGE
02-4B-203-1	5149 5150	PAYLOAD BAY DOOR DRIV	FAILS TO ENGAGE
02-4B-203-2	5150	PAYLOAD BAY DOOR DRIV	SLIPS
02-4B-203-1	5151 5152	PAYLOAD BAY DOOR DRIV	LOSS OF OUTPUT
02-4B-203-1	5152 5153	PAYLOAD BAY DOOR DRIV	PARTIAL OUTPUT
02-4B-203-1	5154	PAYLOAD BAY DOOR DRIV	PHYSICAL BINDING
02-4B-202-1	5155	PAYLOAD BAY DOOR DRIV	FAILS TO OPERATE
02-4B-204-2	5156	PAYLOAD BAY DOOR DRIV	PHYSICAL BINDING
02-4B-202-1	5157	PAYLOAD BAY DOOR DRIV	PARTIAL OUTPUT
02-4B-202-2	5157	PAYLOAD BAY DOOR DRIV	PARTIAL OUTPUT
02-4B-204-2	5158	PAYLOAD BAY DOOR DRIV	BROKEN
02-4B-200-1	5159	PAYLOAD BAY DOOR DRIV	SEIZED BEARING
02-4B-201-1	5161	PAYLOAD BAY DOOR DRIV	BROKEN SUPPORT
02-4B-200-1	5162	PAYLOAD BAY DOOR DRIV	FAILS OUT OF TOL
02-4B-202-2	5162	PAYLOAD BAY DOOR DRIV	FAILS OUT OF TOL
02-4B-207-1	5163	PAYLOAD BAY DOOR DRIV	FAILS OUT OF TOL
02-4B-207-2 02-4B-204-1	5164	PAYLOAD BAY DOOR DRIV	TORQUE LIMITER
02-4B-204-1 02-4B-204-1	5165	PAYLOAD BAY DOOR DRIV	JAMMED ROTARY ACT
UZ-4D-2U4-1	310		

NASA FMEA	MDAC-II	) ITEM	FAILURE MODE
02-4B-209-2	5166	Dauroan man	
02-4B-204-1	5166	THE TOUR DICT A	
02-4B-209-1	5167		BROKEN MOUNTING
02-4B-209-2	5169	PAYLOAD BAY DOOR DRIV	PHYSICAL BINDING
02-4B-109-1	5176	PAYLOAD BAY DOOR DRIV	BROKEN
02-4B-206-1	5179	PAYLOAD BAY DOOR ALIG	PHYSICAL BINDING
05-6EB-2000-1	5502	PAYLOAD BAY DOOR SHEA	PHYSICAL BINDING
05-6EB-2001-1		CONTROL BUS 1.2K RESI	OPEN CIRCUIT
05-6EB-2001-2		PAYLOAD BAY DOORS CON	FAILS TO SWITCH
05-6EB-2010-1		PAYLOAD BAY DOORS CON	FAILS TO SWITCH
05-6EB-2010-2	5504	PAYLOAD BAY DOORS CON	FAILS TO SWITCH
05-6EB-2011-1	5504 5505	PAYLOAD BAY DOORS CON	FAILS TO SWITCH
05-6EB-2004-1	5505 5507	FUSE, 1A	OPEN (ELECTRICAL)
05-6EB-2004-2	5507	MAIN DC BUS RELAY	FAILS TO CLOSE
05-6EB-2005-1	5507	MAIN DC BUS RELAY	FAILS TO CLOSE
05-6EB-2005-2	5507 5507	MAIN DC BUS RELAY	FAILS TO CLOSE
05-6EB-2004-2	5508	MAIN DC BUS RELAY	FAILS TO CLOSE
05-6EB-2005-1	5508 5508	MAIN DC BUS RELAY	FAILS TO OPEN
05-6EB-2005-2	5508	MAIN DC BUS RELAY	FAILS TO OPEN
02-4G-179-2	6103	MAIN DC BUS RELAY MOTOR BRAKE	FAILS TO OPEN
02-4G-183-2	6104	MODOUE LINEARS	PHYSICAL BINDING
02-4G-180-1	6107	TORQUE LIMITER GEARBOX	FAILS OUT OF TOL
02-4G-180-2	6108	GEARBOX	PHYSICAL BINDING
02-4G-181-1	6111		STRUCTURAL FAILURE
02-4G-176-1	6113	LATCH TORQUE SHAFT AS	PHYSICAL BINDIND
02-4G-153-1	6201	LATCH HOOK MECHANISM MOTOR	FAILS TO RELEASE
02-4G-153-2	6203	MOTOR BRAKE	LOSS OF OUTPUT
02-4G-155-2	6204	TORQUE LIMITER	PHYSICAL BINDING
02-4G-155-1	6205	TORQUE LIMITER	FAILS OUT OF TOL
02-4G-154-2	6207	GEARBOX	FAILS OUT OF TOL
02-4G-154-3	6208	GEARBOX	PHYSICAL BINDING
02-4G-151-2	6211	DEPLOYMENT TORQUE SHA	STRUCTURAL FAILURE
02-4G-158-1	6211	DEPLOYMENT TORQUE SHA	=
02-4G-151-2	6212	DEPLOYMENT ROTARY ACT	PHYSICAL BINDING
02-4G-151-3	6212	DEPLOYMENT ROTARY ACT	STRUCTURAL FAILURE
02-4G-156-1	6301	HINGE FITTINGS/POINTS	STRUCTURAL FAILURE
02-4G-156-2	6302	HINGE FITTINGS/POINTS	PHYSICAL BINDING
02-4G-186-1	6302	HINGE FITTINGS/POINTS	STRUCTURAL FAILURE
05-65G-2001-01	6501	LATCH CONTROL SWITCH	STRUCTURAL FAILURE
05-65G-2001-01	6502	LATCH CONTROL SWITCH	FAILS TO RELEASE
05-65G-2001-01	6503	LATCH CONTROL SWITCH	FAILS IN RELEASE
05-65G-2001-01	6504	LATCH CONTROL SWITCH	FAILS TO LATCH
05-6EG-2010-1	6507	RADIATOR CONTROL SWIT	FAILS IN LATCH
05-6EG-2010-1	6508	RADIATOR CONTROL SWIT	FAILS TO DEPLOY
05-6EG-2010-1	6509	RADIATOR CONTROL SWIT	FAILS IN DEPLOY
05-6EG-2010-3	6509	RADIATOR CONTROL SWIT	FAILS TO STOW
05-6EG-2010-1	6510	RADIATOR CONTROL SWIT	FAILS TO STOW
05-6EG-2010-3	6510	RADIATOR CONTROL SWIT	FAILS IN STOW
02-4A-593309-1	7100	PRESSURE PORT	FAILS IN STOW
			CLOGGED

NASA FMEA	MDAC-ID	ITEM	FAILURE MODE
	7101	PRESSURE PORT	LEAKAGE
02-4A-593309-1	7101	O RING	LEAKAGE
02-4A-593302-2	7102	O RING	CRACKED
02-4A-593302-2	7103	ACTUATOR	BROKEN GEAR
02-4A-593302-1	7106	ACTUATOR	BROKEN SHAFT
02-4A-593302-1	7107	ACTUATOR	JAMMED
02-4A-593302-1	7108 7109	ACTUATOR	BROKEN GEAR
02-4A-593202-1	7110	ACTUATOR	BROKEN SHAFT
02-4A-593202-1	7111	ACTUATOR	JAMMED
02-4A-593202-1	7112	O RING	CRACKED
02-4A-593202-3	7112	O RING	LEAKAGE
02-4A-593202-3	8100	ROD ASSEMBLY	PHYSICAL BINDING
01-5B-380102-1 01-5B-380103-1	8100	ROD ASSEMBLY	PHYSICAL BINDING
01-5B-380103-1 01-5B-380108-1	8100	ROD ASSEMBLY	PHYSICAL BINDING
01-5B-380108-1 01-5B-380110-1	8100	ROD ASSEMBLY	PHYSICAL BINDING
01-5B-380110-1 01-5B-380116-1	8100	ROD ASSEMBLY	PHYSICAL BINDING
01-5B-380118-1	8100	ROD ASSEMBLY	PHYSICAL BINDING
01-5B-380120-1	8100	ROD ASSEMBLY	PHYSICAL BINDING
01-5B-380126-1	8100	ROD ASSEMBLY	PHYSICAL BINDING
01-5B-380125-1 01-5B-380105-1	8101	BELLCRANK	PHYSICAL BINDING
01-5B-380103-1 01-5B-380108-1	8101	BELLCRANK	PHYSICAL BINDING
01-5B-380103 1 01-5B-380111-1	8101	BELLCRANK	PHYSICAL BINDING
01-5B-380111 1 01-5B-380113-1	8101	BELLCRANK	PHYSICAL BINDING
01-5B-380119-1	8101	BELLCRANK	PHYSICAL BINDING
01-5B-380127-1	8101	BELLCRANK	PHYSICAL BINDING
01-5B-380129-1	8101	BELLCRANK	PHYSICAL BINDING
01-5B-380101-1	8102	BOLT/BRACKET/DOUBLER	PHYSICAL BINDING
01-5B-380104-1	8102	BOLT/BRACKET/DOUBLER	PHYSICAL BINDING
01-5B-380109-1	8102	BOLT/BRACKET/DOUBLER	PHYSICAL BINDING
01-5B-380112-1	8102	BOLT/BRACKET/DOUBLER	PHYSICAL BINDING
01-5B-380117-1	8102	BOLT/BRACKET/DOUBLER	PHYSICAL BINDING
01-5B-380125-1	8102	BOLT/BRACKET/DOUBLER	PHYSICAL BINDING
01-5B-380128-1	8102	BOLT/BRACKET/DOUBLER	PHYSICAL BINDING
01-5B-380104-1	8103	INPUT/OUTPUT TORQUE S	PHYSICAL BINDING
01-5B-380105-1	8103	INPUT/OUTPUT TORQUE S	PHYSICAL BINDING
01-5B-380106-1	8103	INPUT/OUTPUT TORQUE S	PHYSICAL BINDING
01-5B-380106-3	8103	INPUT/OUTPUT TORQUE S	PHYSICAL BINDING
01-5B-380107-3	8103	INPUT/OUTPUT TORQUE S	PHYSICAL BINDING
01-5B-380112-1	8103	INPUT/OUTPUT TORQUE S	PHYSICAL BINDING
01-5B-380113-1	8103	INPUT/OUTPUT TORQUE S	PHYSICAL BINDING
01-5B-380114-1	8103	INPUT/OUTPUT TORQUE S	PHYSICAL BINDING
01-5B-380114-3	8103	INPUT/OUTPUT TORQUE S	PHYSICAL BINDING PHYSICAL BINDING
01-5B-380115-2	8103	INPUT/OUTPUT TORQUE S	PHYSICAL BINDING
01-5B-380115-3	8103	INPUT/OUTPUT TORQUE S	PHYSICAL BINDING
01-5B-380122-1	8103	INPUT/OUTPUT TORQUE S	PHYSICAL BINDING
01-5B-380122-3	8103	INPUT/OUTPUT TORQUE S	PHYSICAL BINDING
01-5B-380123-2	8103	INPUT/OUTPUT TORQUE S INPUT/OUTPUT TORQUE S	PHYSICAL BINDING
01-5B-380123-3	8103	INPUT/OUTPUT TORQUE S INPUT/OUTPUT TORQUE S	PHYSICAL BINDING
01-5B-380128-1	8103	IMPUI/OUTFUI TORQUE S	

NASA FMEA	MDAC-ID	ITEM	FAILURE MODE
01_ED2001201	0100		
01-5B-380130-1	8103	INPUT/OUTPUT TORQUE S	PHYSICAL BINDING
01-5B-380130-3	8103	INPUT/OUTPUT TORQUE S	PHYSICAL BINDING
01-5B-380104-1 01-5B-380105-1	8104	INPUT/OUTPUT TORQUE S	FAILS TO START
01-5B-380103-1	8104	INPUT/OUTPUT TORQUE S	FAILS TO START
01-5B-380107-2	8104	INPUT/OUTPUT TORQUE S	FAILS TO START
01-5B-380107-3	8104 8104	INPUT/OUTPUT TORQUE S	FAILS TO START
01-5B-380112-1	8104	INPUT/OUTPUT TORQUE S	FAILS TO START
01-5B-380114-1	8104	INPUT/OUTPUT TORQUE S INPUT/OUTPUT TORQUE S	FAILS TO START
01-5B-380114-3	8104	· · · · · · · · · · · · · · · · · · ·	FAILS TO START
01-5B-380115-2	8104		FAILS TO START
01-5B-380115-3	8104		FAILS TO START
01-5B-380122-1	8104	INPUT/OUTPUT TORQUE S INPUT/OUTPUT TORQUE S	FAILS TO START
01-5B-380122-3	8104	INPUT/OUTPUT TORQUE S	FAILS TO START FAILS TO START
01-5B-380123-2	8104	INPUT/OUTPUT TORQUE S	
01-5B-380123-3	8104	INPUT/OUTPUT TORQUE S	FAILS TO START FAILS TO START
01-5B-380128-1	8104	INPUT/OUTPUT TORQUE S	FAILS TO START
01-5B-380130-1	8104	INPUT/OUTPUT TORQUE S	FAILS TO START
01-5B-380130-3	8104	INPUT/OUTPUT TORQUE S	FAILS TO START
01-5B-380131-2	8104	INPUT/OUTPUT TORQUE S	FAILS TO START
01-5B-380131-3	8104	INPUT/OUTPUT TORQUE S	FAILS TO START
01-5B-380107-1	8105	DIFFERENTIAL/GEAR TRA	PHYSICAL BINDING
01-5B-380115-1	8105	DIFFERENTIAL/GEAR TRA	PHYSICAL BINDING
01-5B-380123-1	8105	DIFFERENTIAL/GEAR TRA	PHYSICAL BINDING
01-5B-380131-1	8105	DIFFERENTIAL/GEAR TRA	PHYSICAL BINDING
01-5B-380115-1	8106	DIFFERENTIAL/GEAR TRA	FAILS TO REMAIN
01-5B-380123-1	8106	DIFFERENTIAL/GEAR TRA	FAILS TO REMAIN
01-5B-380131-1	8106	DIFFERENTIAL/GEAR TRA	FAILS TO REMAIN
05-6AB-2026A-2	8107	MICROSWITCH POSITION	FAILS TO REMAIN
05-6AB-2027-2	8107	MICROSWITCH POSITION	FAILS TO REMAIN
05-6AB-2028	8107	MICROSWITCH POSITION	FAILS TO REMAIN
05-6AB-2029-2	8107	MICROSWITCH POSITION	FAILS TO REMAIN
05-6AB-2030A-2	8107	MICROSWITCH POSITION	FAILS TO REMAIN
05-6AB-2031A	8107	MICROSWITCH POSITION	FAILS TO REMAIN
05-6AB-2026A-2	8108	MICROSWITCH POSITION	FAILS TO REMAIN
05-6AB-2027-2	8108	MICROSWITCH POSITION	FAILS TO REMAIN
05-6AB-2028	8108	MICROSWITCH POSITION	FAILS TO REMAIN
05-6AB-2029-2	8108	MICROSWITCH POSITION	FAILS TO REMAIN
05-6AB-2030A-2	8108	MICROSWITCH POSITION	FAILS TO REMAIN
05-6AB-2031A	8108	MICROSWITCH POSITION	FAILS TO REMAIN
05-6AB-2026A-2	8502	ACTUATOR SWITCH MODUL	OPEN (ELECTRICAL)
05-6AB-2027-2 05-6AB-2028	8502 8502	ACTUATOR SWITCH MODUL	OPEN (ELECTRICAL)
05-6AB-2029-2	8502 8502	ACTUATOR SWITCH MODUL	OPEN (ELECTRICAL)
05-6AB-2029-2 05-6AB-2030A-2	8502 8502	ACTUATOR SWITCH MODUL	OPEN (ELECTRICAL)
05-6AB-2030A-2	8502 8502	ACTUATOR SWITCH MODUL	OPEN (ELECTRICAL)
05-6AB-2031A 05-6AB-2126-2	8502 8503	ACTUATOR SWITCH MODUL MCA AC POWER RELAY	OPEN (ELECTRICAL)
05-6AB-2128-1	8503	MCA AC POWER RELAY	PARTIAL OUTPUT
05-6AB-2129-2	8503	MCA AC POWER RELAY	PARTIAL OUTPUT
	000	HOA NO FOWER RELAI	PARTIAL OUTPUT

	MDAC-ID	ITEM	FAILURE MODE
NASA FMEA	MDAC-ID		
			OTTO
0120-1	8503	MCA AC POWER RELAY	PARTIAL OUTPUT
05-6AB-2130-1	8503	MCA AC POWER RELAY	PARTIAL OUTPUT PARTIAL OUTPUT
05-6AB-2130-2	8503	MCA AC POWER RELAY	PARTIAL OUTPUT
05-6AB-2133-2	8503	MCA AC POWER RELAY	PARTIAL OUTPUT PARTIAL OUTPUT
05-6AB-2134-2	8503	MCA AC POWER RELAY	PARTIAL OUTPUT
05-6AB-2135-1	8503	MCA AC POWER RELAY	PARTIAL OUIFUI
05-6AB-2138-1	8503	MCA AC POWER RELAY	PARTIAL OUTPUT PARTIAL OUTPUT
05-6AB-2139-2	8503	MCA AC POWER RELAY	OPEN (ELECTRICAL)
05-6AB-2177-1	8507	MCA DIODE	OPEN (ELECTRICIE)
05-6AB-2252-1	8508	MCA DIODE	SHORTED DELAYED OPERATION
05-6AB-2252-1	8511	MODULATOR/DEMODULATOR	DELAYED OPERATION
05-6AB-2201-2	8511	MODULATOR/DEMODULATOR	DELAYED OPERATION
05-6AB-2202-2	8511	MODILATOR/DEMODULATOR	INADVERTENT OPERA
05-6AB-2204-2	8512	MODULATOR/DEMODULATOR	INADVERTENT OPERA
05-6AB-2201-2	8512	MODULATOR/DEMODULATOR	INADVERTENT OPERA
05-6AB-2202-2 05-6AB-2204-2	8512	MODULATOR/DEMODULATOR	INADVERTENT OPERA
05-6AB-2201-2	8513	GPC SOFTWARE	INADVERTENT OPERA
05-6AB-2202-2	8513	GPC SOFTWARE	INADVERTENT OPERA
05-6AB-2204-2	8513	GPC SOFTWARE	DELAYED OPERATION
05-6AB-2201-2	8517	GPC SOFTWARE	DELAYED OPERATION
05-6AB-2202-2	8517	GPC SOFTWARE	DELAYED OPERATION
05-6AB-2204-2	8517	GPC SOFTWARE	PHYSICAL BINDING
03-6AB-2204-2 02-4F-032001-1	9100	INPUT/OUTPUT SHAFT -	PHYSICAL BINDING
02-4F-032001-3	9100	INPUT/OUTPUT SHAFT -	PHYSICAL BINDING
02-4F-032001-5	9100	INPUT/OUTPUT SHAFT -	FAILS TO START
02-4F-032001-3	9101	INPUT/OUTPUT SHAFT -	FAILS TO START
02-4F-032001-4	9101	INPUT/OUTPUT SHAFT -	FAILS TO REMAIN
05-6EF-2003-1	9500	CIRCUIT BREAKER/SWITC	FAILS TO REMAIN
05-6EF-2003-2	9500	CIRCUIT BREAKER/SWITC	OPEN (ELECTRICAL)
05-6EE-2001-1	11700	FUSE (1A) MOTOR POWER	SHORT (ELECTRICAL
05-6EE-2008-2	11704	DIODE	OPEN (ELECTRICAL)
05-6EE-2009-2	11706	DIODE	OPEN (ELECTRICAL)
05-6EE-2012-1	11707	DIODE	SHORT (ELECTRICAL
05-6EE-2012-2	11708	DIODE DIODE (DEPLOY CONTROL	SHORTED
05-6EH-56004-2	14688	DIODE (STOW ENABLE CI	SHORTED
05-6EH-56007-2	14689	RESISTOR (STOW SIGNAL	OPEN (ELECTRICAL)
05-6EH-56010-1	14690	RESISTOR (STOW SIGNAL	SHORTED
05-6EH-56010-2	14691	RESISTOR (STOW ENABLE	OPEN (ELECTRICAL)
05-6EH-56011-1	14692	RESISTOR (STOW ENABLE	SHORTED
05-6EH-56011-2	14693	DIODE (DEPLOY POS. IN	SHORTED
05-6EH-56051-2	14694	DIODE (DEPLOYED/XMIT	OPEN (ELECTRICAL)
05-6EH-56054-1	14695	DIODE (DEPLOYED/XMIT	SHORTED
05-6EH-56054-2	14696	RUSE (DEPLOY/XMIT SCA	OPEN (ELECTRICAL)
05-6EH-56055-1	14697 14698	DIODE (STOW INITIATE)	OPEN (ELECTRICAL)
05-6EH-56056-1		FUSE (STOW INITIATE)	OPEN (ELECTRICAL)
05-6EH-56057-1	16511	BEARING, TORQUE SHAFT	FAILS TO ROTATE
02-4G-157-1	16512	SWITCH MODULE, LIMIT,	SHORTS, PREMATURE
02-4G-301-2	16512	TY	PHYSICAL BINDING
02-4G-152-1	10010		

NASA FMEA	MDAC-ID	ITEM	FAILURE MODE
02-4G-184-1 05-6EG-2009-1 05-6EG-2017-1 02-4A-593201-1 02-4A-593205-2 02-4A-593301-2 02-4A-593301-1	16514 16515 16516 17121 17122 17123 17124 17125	ROLLER ASSEMBLY LATCH FUSE, 1A MID MCA 1, 2, 3, 4 SIDE HATCH LATCH MECH SIDE HATCH HINGE SIDE HATCH ATTENUATOR AIRLOCK HATCH LATCH M AIRLOCK HATCH LATCH M	FAILS TO ENGAGE FAIL OPEN FAILS TO TRANSFER FAILS TO DISENGAG PHYSICAL BINDING PHYSICAL BINDING FAILS TO ENGAGE FAILS TO DISENGAG

#### APPENDIX E DETAILED ANALYSIS

This appendix contains the IOA analysis worksheets supplementing previous results reported in STSEOS Working Paper 1.0-WP-VA87001-03, Analysis of the Mechanical Actuation System, (30 November 1987). Prior results were obtained independently and documented before starting the FMEA/CIL assessment activity. Supplemental analysis was performed to address failure modes not previously considered by the IOA. Each sheet identifies the hardware item being analyzed, parent assembly and function performed. For each failure mode possible causes are identified, and hardware and functional criticality for each mission phase are determined as described in NSTS 22206, Instructions for Preparation of FMEA and CIL, 10 October 1986. Failure mode effects are described at the bottom of each sheet and worst case criticality is identified at the top.

# LEGEND FOR IOA ANALYSIS WORKSHEETS

### Hardware Criticalities:

- 1 = Loss of life or vehicle
- = Loss of mission or next failure of any redundant item (like or unlike) could cause loss of life/vehicle
- = All others

### Functional Criticalities:

- 1R = Redundant hardware items (like or unlike) all of which, if failed, could cause loss of life or vehicle.
- 2R = Redundant hardware items (like or unlike) all of which, if failed, could cause loss of mission.

### Redundancy Screen A:

- 1 = Is Checked Out PreFlight
  2 = Is Capable of Check Out PreFlight 3 = Not Capable of Check Out PreFlight
- NA = Not Applicable

### Redundancy Screens B and C:

- p = Passed Screen
- = Failed Screen
- NA = Not Applicable

DATE: 2/16/88 HIGHEST CRITICALITY HDW/FUNC SUBSYSTEM: MECH/PH FLIGHT: 1/1 MDAC ID: 17121 ABORT: / ITEM: SIDE HATCH LATCH MECHANISM FAILURE MODE: FAILS TO DISENGAGE

LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY

#### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) PERSONNEL HATCHES
- 3) SIDE HATCH
- 4) LATCH MECHANISM

5) 6) 7)

8) 9)

#### CRITICALITIES

FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	1/1	RTLS:	/
LIFTOFF:	/	TAL:	<i>'</i> /
ONORBIT:	1/1	AOA:	//
DEORBIT:	./	ATO:	//
LANDING/SAFING	: /		/

REDUNDANCY SCREENS: A [ ] B [ ] C [ ]

LOCATION: MIDDECK PART NUMBER: V070-593201

CAUSES: FOREIGN OBJECTS/DEBRIS, PHYSICAL BINDING JAMMING, PIECE-PART FAILURE

#### EFFECTS/RATIONALE:

POTENTIAL LOSS OF CREW/MISSION DURING PRELAUNCH EMERGENCY EGRESS OR ON-ORBIT IF EMERGENCY CREWMEMBER INGRESS IS REQUIRED. THIS ITEM NOT IDENTIFIED SEPARATELY IN IOA DATA DROP 2.

DATE: 2/16/88 HIGHEST CRITICALITY HDW/FUNC SUBSYSTEM: MECH/PH FLIGHT: 1/1 ABORT: /

ITEM:

SIDE HATCH HINGE

FAILURE MODE: PHYSICAL BINDING JAMMING

LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY

#### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) PERSONNEL HATCHES
- 3) SIDE HATCH
- 4) HATCH HINGE
- 5)
- 6)
- 7) 8)
- 9)

#### CRITICALITIES

FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	1/1	RTLS:	/
LIFTOFF:	/	TAL:	,
ONORBIT:	1/1	AOA:	1
DEORBIT:	/	ATO:	1
LANDING/SAFING:	. /		,

REDUNDANCY SCREENS: A [ ] B [ ] C [ ]

LOCATION: MIDDECK PART NUMBER: V070-593202

CAUSES: PIECE-PART FAILURE, FOREIGN OBJECTS/DEBRIS

#### EFFECTS/RATIONALE:

POTENTIAL LOSS OF MISSION/CREW DUE TO LOSS OF INGRESS CAPABILITY DURING PRELAUNCH EMERGENCY. NOT INCLUDED AS A SEPARATE ITEM IN IOA DATA DROP 2.

HIGHEST CRITICALITY HDW/FUNC 2/16/88 DATE: FLIGHT: 1/1 SUBSYSTEM: MECH/PH ABORT: MDAC ID: 17123 SIDE HATCH ATTENUATOR HINGE ITEM: FAILURE MODE: PHYSICAL BINDING/JAMMING LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY BREAKDOWN HIERARCHY: 1) MECHANICAL ACTUATION SYSTEM 2) PERSONNEL HATCHES 3) SIDE HATCH ATTENUATOR ASSY 4) 5) 6) 7) 8) 9) CRITICALITIES HDW/FUNC ABORT HDW/FUNC FLIGHT PHASE RTLS: 1/1 PRELAUNCH: TAL: LIFTOFF: AOA: 1/1 ONORBIT: ATO: / DEORBIT: LANDING/SAFING:

MIDDECK LOCATION:

PART NUMBER: MC252-0002-0001

CAUSES: PIECE-PART FAILURE, FOREIGN OBJECTS/DEBRIS

REDUNDANCY SCREENS: A [ ] B [ ] C [ ]

### EFFECTS/RATIONALE:

POTENTIAL LOSS OF MISSION/CREW DUE TO LOSS OF INGRESS CAPABILITY DURING ON-ORBIT EMERGENCY OR EGRESS CAPABILITY DURING PRELAUNCH EMERGENCY. NOT INCLUDED AS A SEPARATE ITEM IN THE IOA DATA DROP

HIGHEST CRITICALITY HDW/FUNC 2/16/88 2/2 FLIGHT: DATE: SUBSYSTEM: MECH/PH / ABORT: MDAC ID: 17125 AIRLOCK HATCH LATCH MECHANISM ITEM:

FAILURE MODE: FAILS TO DISENGAGE

LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY

BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) PERSONNEL HATCHES
- 3) AIRLOCK
- 4) HATCH LATCH MECHANISM
- 5)
- 6) 7)
- 8)
- 9)

### CRITICALITIES

	CRITICALITIES		HDW/FUNC	
FLIGHT PHASE PRELAUNCH: LIFTOFF: ONORBIT: DEORBIT: LANDING/SAFING	HDW/FUNC / 2/2 /	ABORT RTLS: TAL: AOA: ATO:	/	

REDUNDANCY SCREENS: A [ 2 ] B [ P ] C [ P ]

LOCATION: MIDDECK PART NUMBER: V075-593301

CAUSES: PHYSICAL BINDING/JAMMING, PIECE-PART FAILURE

POTENTIAL LOSS OF MISSION DUE TO INABILITY TO PERFORM EVA

MISSIONS BECAUSE HATCHES CANNOT BE OPENED.

DATE: 2/16/88 HIGHEST CRITICALITY HDW/FUNC SUBSYSTEM: MECH/PH FLIGHT: 1/1 MDAC ID: 17124 ABORT: 

ITEM: AIRLOCK HATCH LATCH MECHANISM

FAILURE MODE: FAILS TO ENGAGE

LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY

### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) PERSONNEL HATCHES
- 3) AIRLOCK
- LATCH MECHANISM 4)
- 5)
- 6)
- 7)
- 8) 9)

FLIGHT PHASE	CRITICA		
PRELAUNCH: LIFTOFF: ONORBIT: DEORBIT: LANDING/SAFING:	HDW/FUNC / 1/1 /	ABORT RTLS: TAL: AOA: ATO:	HDW/FUNC / / /

REDUNDANCY SCREENS: A [ ] B [ ] C [ ]

LOCATION: MIDDECK PART NUMBER: V075-593301

CAUSES: PIECE-PART FAILURE, FOREIGN OBJECTS/DEBRIS, PHYSICAL

### EFFECTS/RATIONALE:

POTENTIAL LOSS OF CREW/MISSION DUE TO INABILITY TO CLOSE AND SEAL HATCH B PREVENTING AIRLOCK REPRESSURIZATION. NOT INCLUDED AS A SEPARATE ITEM IN IOA DATA DROP 2.

DATE: 2/16/88 HIGHEST CRITICALITY HDW/FUNC SUBSYSTEM: MECH/PH FLIGHT: 2/2 MDAC ID: 17126 ABORT: AIRLOCK HATCH LATCH LOCK ITEM: FAILURE MODE: FAILS UNLOCK LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY BREAKDOWN HIERARCHY: 1) MECHANICAL ACTUATION SYSTEM 2) PERSONNEL HATCHES 3) AIRLOCK HATCH LATCH MECHANISM 4) 5) 6) 7) 8) 9)

CRITICALITIES

FLIGHT PHASE HDW/FUNC ABORT HDW/FUNC PRELAUNCH: / RTLS: / LIFTOFF: / TAL: / ONORBIT: 2/2 AOA: / DEORBIT: / ATO: / LANDING/SAFING: /

REDUNDANCY SCREENS: A [ 2 ] B [ P ] C [ P ]

LOCATION: MIDDECK PART NUMBER: V075-593301

CAUSES: PHYSICAL BINDING/JAMMING, PIECE-PART FAILURE

EFFECTS/RATIONALE:

POTENTIAL LOSS OF MISSION DUE TO INABILITY TO PERFORM EVA MISSIONS BECAUSE HATCHES CANNOT BE OPENED.

HIGHEST CRITICALITY HDW/FUNC 2/25/88

DATE: 2/25/88 SUBSYSTEM: MECH/PBR MDAC ID: 16513 FLIGHT: 1/1 ABORT: 3/3

LINKAGE ASSEMBLY ITEM:

FAILURE MODE: PHYSICAL BINDING/JAMMING

LEAD ANALYST: W. SLAUGHTER SUBSYS LEAD: H.J. LOWERY

#### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) PBR
- 3) DEPLOYMENT 4) LINKAGE ASSEMBLY

5)

6)

7)

8) 9)

CRITICALITIES

FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	1/1	AOA:	3/3
DEORBIT:	1/1	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [NA ] B [NA ] C [NA ]

LOCATION:

PART NUMBER: V070-594410

CAUSES: ADVERSE TOLERANCES/WEAR, CONTAMINATION/FOREIGN OBJECT/DEBRIS, DEFECTIVE PART/MATERIAL DEFECT, THERMAL DISTORTION, VIBRATION

EFFECTS/RATIONALE:

POSSIBLE LOSS OF CREW VEHICLE IF RADIATOR CANNOT BE STOWED.

DATE:

2/25/88

HIGHEST CRITICALITY HDW/FUNC

SUBSYSTEM: MECH/PBR

FLIGHT: 2/1R ABORT: 3/3

MDAC ID: 16511

ITEM:

BEARING, TORQUE SHAFT SUPPORT

FAILURE MODE: FAILS TO ROTATE

LEAD ANALYST: W. SLAUGHTER SUBSYS LEAD: H.J. LOWERY

#### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) PBR
- 3) TORQUE SHAFT
- 4) BEARING
- 5)
- 6)
- 7)
- 8)

9)

#### CRITICALITIES

FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	2/1R	AOA:	3/3
DEORBIT:	2/1R	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [ 3 ] B [ F ] C [ P ]

LOCATION:

PART NUMBER: ME131-0051-0009

CAUSES: ADVERSE TOLERANCES/WEAR, CONTAMINATION/FOREIGN OBJECT

DEBRIS, SEIZED BEARING, TEMPERATURE, MISALIGNMENT

EFFECTS/RATIONALE:

POSSIBLE LOSS OF VEHICLE/CREW IF RADIATOR CANNOT BE STOWED AND

PAYLOAD BAY DOORS CLOSED.

DATE: 2/25/88 HIGHEST CRITICALITY HDW/FUNC

SUBSYSTEM: MECH/PBR MDAC ID: 16514 FLIGHT: 3/1R ABORT: 3/3

ITEM: ROLLER ASSEMBLY LATCH RADIATOR

FAILURE MODE: FAILS TO ENGAGE

LEAD ANALYST: W. SLAUGHTER SUBSYS LEAD: H.J. LOWERY

#### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- PBR 2)
- 3) DEPLOYMENT
- 4) ROLLER ASSEMBLY LATCH
- 5)
- 6)
- 7)
- 8) 9)

#### CRITICALITIES

HDW/FUNC	ABORT	HDW/FUNC
3/3	RTLS:	3/3
3/3	TAL:	3/3
3/1R	AOA:	3/3
3/1R	ATO:	3/3
: 3/3		•
	3/3 3/3 3/1R 3/1R	3/3 RTLS: 3/3 TAL: 3/1R AOA: 3/1R ATO:

REDUNDANCY SCREENS: A [ 2 ] B [ F ] C [ P ]

LOCATION:

PART NUMBER: MC203-0002-0012, 19, 32, 39

CAUSES: ADVERSE TOLERANCES WEAR, CONTAMINATION

EFFECTS/RATIONALE:

NONE

HIGHEST CRITICALITY HDW/FUNC FLIGHT: 2/1R 2/25/88 DATE:

SUBSYSTEM: MECH/PBR MDAC ID: 16512 ABORT:

SWITCH MODULE, LIMIT, RADIATOR STOWED

FAILURE MODE: SHORTS, PREMATURELY CLOSES, CONDUCTS INADVERTENTLY

LEAD ANALYST: W. SLAUGHTER SUBSYS LEAD: H.J. LOWERY

### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) PBR
- 3) RADIATOR 4) SWITCH, LIMIT
- 5)
- 6)
- 7)
- 8) 9)

### CRITICALITIES

	CRITICALITIES		
FLIGHT PHASE PRELAUNCH: LIFTOFF: ONORBIT: DEORBIT: LANDING/SAFING:	HDW/FUNC 3/3 3/3 2/1R 2/1R	ABORT RTLS: TAL: AOA: ATO:	HDW/FUNC 3/3 3/3 3/3 3/3

REDUNDANCY SCREENS: A [ 2 ] B [ P ] C [ P ]

LOCATION:

PART NUMBER: ME452-0123-0003

CAUSES: PIECE-PART STRUCTURAL FAILURE, MECHANICAL SHOCK,

VIBRATION, CONTAMINATION

SECOND FAILURE MAY PREVENT STOWAGE OF RADIATORS RESULTING IN IN ABILITY TO CLOSE PAYLOAD BAY DOORS.

DATE: 1/28/88 HIGHEST CRITICALITY HDW/FUNC

SUBSYSTEM: MECH/ADP/EPD&C FLIGHT: 3/1R ABORT: 3/1R MDAC ID: 11700

ITEM: FUSE (1A) MOTOR POWER CONTROL

FAILURE MODE: OPEN (ELECTRICAL)

LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY

### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) AIR DATA PROBE
- 3) PROBE ASSEMBLY
- 4)
- 5)
- 6)
- 7) 8)
- 9)

### CRITICALITIES

PRELAUNCH:	HDW/FUNC	ABORT RTLS: TAL: AOA: ATO:	HDW/FUNC
LIFTOFF:	/		3/1R
ONORBIT:	/		3/1R
DEORBIT:	3/1R		3/1R
LANDING/SAFING:	3/3	ATO:	/

REDUNDANCY SCREENS: A [ 2 ] B [ P ] C [ P ]

LOCATION:

PART NUMBER: ME451-0018-0100

CAUSES: PIECE-PART FAILURE

### EFFECTS/RATIONALE:

LOSS OF ONE REDUNDANT AIR DATA PROBE MOTOR. SECOND LOSS WOULD CAUSE LOSS OF PROBE CONTROL. NOT IDENTIFIED PRIOR TO DATA DROP

HIGHEST CRITICALITY HDW/FUNC FLIGHT: 3/3 1/28/88 SUBSYSTEM: MECH/ADP/EPD&C DATE: FLIGHT: 3/3 3/3 ABORT: MDAC ID: 11701 RESISTOR ITEM: FAILURE MODE: OPEN LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY BREAKDOWN HIERARCHY: 1) MECHANICAL ACTUATION SYSTEM 2) AIR DATA PROBE SWITCH SCAN - LIMIT RESISTOR 4) 5) 6) 7) 8) 9) CRITICALITIES CRITICALITIES
HDW/FUNC ABORT HDW/FUNC
/ RTLS: 3/3
/ TAL: 3/3 FLIGHT PHASE PRELAUNCH: 1 LIFTOFF: 3/3 AOA: ONORBIT: ATO: 3/3 3/3 DEORBIT: LANDING/SAFING: /

REDUNDANCY SCREENS: A [ ] B [ ] C [ ]

LOCATION: PART NUMBER:

CAUSES: PIECE-PART FAILURE

EFFECTS/RATIONALE:

NO EFFECT ON PROBE OPERATION. NOT IDENTIFIED PRIOR TO DATA DROP 2.

DATE: 1/29/88 HIGHEST CRITICALITY HDW/FUNC SUBSYSTEM: MECH/ADP/EPD&C FLIGHT: 3/3 MDAC ID: 11702 ABORT: 3/3 ITEM: RESISTOR FAILURE MODE: OPEN (ELECTRICAL) LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY BREAKDOWN HIERARCHY: 1) MECHANICAL ACTUATION SYSTEM 2) AIR DATA PROBE 3) LIMIT SWITCH - LIMIT RESISTOR 4) 5) 6) 7) 8) 9) CRITICALITIES FLIGHT PHASE HDW/FUNC ABORT HDW/FUNC PRELAUNCH: RTLS: 3/3 LIFTOFF: / TAL: 3/3 / ONORBIT: AOA: 3/3 DEORBIT: ATO: 3/3 LANDING/SAFING:

LOCATION:

PART NUMBER:

CAUSES: PIECE-PART FAILURE, MECHANICAL SHOCK, VIBRATION

REDUNDANCY SCREENS: A [ ] B [ ] C [ ]

EFFECTS/RATIONALE:

NO EFFECT IN AIR DATA PROBE OPERATION. NOT IDENTIFIED PRIOR TO DATA DROP 2.

HIGHEST CRITICALITY HDW/FUNC FLIGHT: 3/1R ABORT: 3/1R 1/29/88 SUBSYSTEM: MECH/ADP/EPD&C MDAC ID: 11703

ITEM:

DIODE

FAILURE MODE: OPEN (ELECTRICAL)

LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY

### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) AIR DATA PROBE
- 3) DEPLOY/HEAT DEPLOY SWITCH OUTPUT

4)

5)

6)

7)

8) 9)

CRITICALITIES

PRELAUNCH: LIFTOFF: ONORBIT: DEORBIT:	HDW/FUNC / / 3/1R	ABORT RTLS: TAL: AOA: ATO:	HDW/FUNC 3/1R 3/1R 3/1R /
LANDING/SAFING	: /		

REDUNDANCY SCREENS: A [ 2 ] B [ P ] C [ P ]

LOCATION: PART NUMBER:

CAUSES: PIECE-PART FAILURE, MECHANICAL SHOCK, VIBRATION

EFFECTS/RATIONALE:

POTENTIAL LOSS OF CREW/VEHICLE AFTER LOSS OF OTHER REDUNDANT

CIRCUIT HARDWARE. NOT FOUND PRIOR TO DATA DROP 2.

DATE: 1/29/88 HIGHEST CRITICALITY HDW/FUNC SUBSYSTEM: MECH/ADP/EPD&C FLIGHT: 3/1R MDAC ID: 11704 ABORT: 3/1R

ITEM:

FAILURE MODE: SHORT (ELECTRICAL)

DIODE

LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY

#### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) AIR DATA PROBE
- 3) DEPLOY/HEAT DEPLOY SWITCH OUTPUT

4)

5) 6)

7)

8)

9)

#### CRITICALITIES

FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	/	RTLS:	3/1R
LIFTOFF:	/	TAL:	3/1R
ONORBIT:	/	AOA:	3/1R
DEORBIT:	3/1R	ATO:	/
Landing/Safir	1G: /		′

REDUNDANCY SCREENS: A [ 2 ] B [ F ] C [ P ]

LOCATION: PART NUMBER:

CAUSES: PIECE-PART FAILURE, THERMAL

#### EFFECTS/RATIONALE:

POTENTIAL LOSS OF CREW/VEHICLE UPON LOSS OF OTHER ADDITIONAL REDUNDANT CIRCUIT HARDWARE. NOT IDENTIFIED PRIOR TO DATA DROP 2.

DATE: 2/01/88 HIGHEST CRITICALITY HDW/FUNC SUBSYSTEM: MECH/ADP/EPD&C FLIGHT: 3/3 ABORT: 3/3 MDAC ID: 11705 ITEM: DIODE FAILURE MODE: SHORT (ELECTRICAL) LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY BREAKDOWN HIERARCHY: 1) MECHANICAL ACTUATION SYSTEM 2) AIR DATA PROBE 3) DEPLOY/HEAT - DEPLOY SWITCH SCAN 4) 5) 6) 7) 8) 9) CRITICALITIES HDW/FUNC ABORT HDW/FUNC / RTLS: 3/3 / TAL: 3/3 FLIGHT PHASE PRELAUNCH: LIFTOFF: ONORBIT: AOA: 3/3 DEORBIT: 3/3 ATO: LANDING/SAFING: / REDUNDANCY SCREENS: A [ ] B [ ] C [ ] LOCATION: PART NUMBER: CAUSES: THERMAL, PIECE-PART FAILURE EFFECTS/RATIONALE:

REFERENCES: ADS DRAWING 9.9 REV. C

NO EFFECT ON AIR DATA PROBE OPERATION.

HIGHEST CRITICALITY HDW/FUNC 2/01/88 DATE: SUBSYSTEM: MECH/ADP/EPD&C FLIGHT: 3/1R ABORT: 3/1R MDAC ID: 11706 DIODE ITEM:

FAILURE MODE: OPEN (ELECTRICAL)

LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY

### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- AIR DATA PROBE 2)
- DEPLOY/HEAT DEPLOY SWITCH SCAN 3)
- 4) 5)
- 6)
- 7)
- 8) 9)

#### CRITICALITIES

01/7 7 7 01/4 7 7		
HDW/FUNC	ABORT	HDW/FUNC
,	RTLS:	3/1R
<i>'</i> /	TAL:	3/1R
′/	AOA:	3/1R
3/1R	ATO:	/
3/3		
	HDW/FUNC / / / 3/1R	HDW/FUNC ABORT / RTLS: / TAL: / AOA: 3/1R ATO:

REDUNDANCY SCREENS: A [ 2 ] B [ F ] C [ P ]

LOCATION: PART NUMBER:

CAUSES: PIECE-PART FAILURE, VIBRATION, MECHANICAL SHOCK

EFFECTS/RATIONALE:

POTENTIAL LOSS OF CREW/VEHICLE UPON LOSS OF OTHER, ADDITIONAL REDUNDANT HARDWARE IN THE CIRCUIT. NOT IDENTIFIED PRIOR TO DATA DROP 2.

HIGHEST CRITICALITY HDW/FUNC FLIGHT: 3/1R ABORT: 3/1R DATE: 2/02/88 SUBSYSTEM: MECH/ADP/EPD&C ABORT: MDAC ID: 11707

ITEM:

DIODE

FAILURE MODE: OPEN (ELECTRICAL)

LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY

### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) AIR DATA PROBE
- 3) HEATER CONTROL
- 4)
- 5)
- 6)
- 7) 8)
- 9)

### CRITICALITIES

	CRITICALITIES		TOTAL
FLIGHT PHASE IN PRELAUNCH: LIFTOFF: ONORBIT: DEORBIT: LANDING/SAFING:	HDW/FUNC / / 3/1R 3/3	ABORT RTLS: TAL: AOA: ATO:	HDW/FUNC 3/1R 3/1R 3/1R

REDUNDANCY SCREENS: A [ 2 ] B [ F ] C [ P ]

LOCATION: HEATER CONTROL ASSEMBLY

PART NUMBER:

CAUSES: PIECE-PART FAILURE, VIBRATION, MECHANICAL SHOCK

EFFECTS/RATIONALE:

POTENTIAL LOSS OF CREW/VEHICLE UPON LOSS OF OTHER, ADDITIONAL HARDWARE IN THE CIRCUIT. NOT IDENTIFIED IN DATA DROP 2.

DATE: 2/02/88 HIGHEST CRITICALITY HDW/FUNC SUBSYSTEM: MECH/ADP/EPD&C FLIGHT: 3/1R ABORT: 3/1R MDAC ID: 11708

ITEM:

DIODE FAILURE MODE: SHORT (ELECTRICAL)

LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY

### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) AIR DATA PROBE
- 3) HEATER CONTROL
- 4)
- 5)
- 6) 7)
- 8) 9)

CRITICALITIES

FLIGHT PHASE PRELAUNCH: LIFTOFF: ONORBIT: DEORBIT: LANDING/SAFING:	HDW/FUNC / / / 3/1R 3/3	ABORT RTLS: TAL: AOA: ATO:	HDW/FUNC 3/1R 3/1R 3/1R
LANDING/SAFING:	3/3		,

REDUNDANCY SCREENS: A [ 2 ] B [ F ] C [ P ]

LOCATION: HEATER CONTROL ASSEMBLY

PART NUMBER:

CAUSES: PIECE-PART FAILURE, THERMAL

EFFECTS/RATIONALE:

POTENTIAL LOSS OF CREW/VEHICLE UPON LOSS OF OTHER ADDITIONAL HARDWARE IN THE CIRCUIT. NOT IDENTIFIED IN DATA DROP 2.

2/25/88 DATE:

HIGHEST CRITICALITY HDW/FUNC

SUBSYSTEM: MECH/PBR

FLIGHT: 2/1R ABORT: 3/3

MDAC ID:

16515

ITEM:

FUSE, 1A

FAILURE MODE: FAIL OPEN

LEAD ANALYST: W. SLAUGHTER SUBSYS LEAD: H.J. LOWERY

BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) PBR
- 3) FUSE
- 4)
- 5)
- 6)
- 7) 8)
- 9)

CRITICALITIES

	CKTIICN	777777	
FLIGHT PHASE PRELAUNCH: LIFTOFF: ONORBIT: DEORBIT: LANDING/SAFING:	HDW/FUNC 3/3 3/3 2/1R 2/1R	ABORT RTLS: TAL: AOA: ATO:	HDW/FUNC 3/3 3/3 3/3 3/3

LANDING/SAFING: 3/3

REDUNDANCY SCREENS: A [ 2 ] B [ P ] C [ P ]

LOCATION:

PART NUMBER: ME451-009-1001

CAUSES: CONTAMINATION, THERMAL STRESS, MECHANICAL SHOCK,

VIBRATION

EFFECTS/RATIONALE:

NO EFFECT - FIRST FAILURE - POSSIBLE VEHICLE LOSS AFTER SECOND

FAILURE AND INABILITY TO STOW RADIATORS.

DATE: 2/25/88 HIGHEST CRITICALITY HDW/FUNC SUBSYSTEM: MECH/PBR FLIGHT: 2/1R MDAC ID: 16516 ABORT:

3/3

ITEM: MID MCA 1, 2, 3, 4

FAILURE MODE: FAILS TO TRANSFER, FAILS TO CONDUCT, SHORTS TO

GROUND (DC SIDE)

LEAD ANALYST: W. SLAUGHTER SUBSYS LEAD: H.J. LOWERY

### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2)
- 3) MID MCA 1, 2, 3, 4
- 4)
- 5)
- 6)
- 7)
- 8) 9)

#### CRITICALITIES

<b></b>	A-17 T CU	TITIO	
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	2/1R	AOA:	- / -
DEORBIT:	2/1R	ATO:	3/3
LANDING/SAFING:	3/3	AIO.	3/3

REDUNDANCY SCREENS: A [ 2 ] B [ P ] C [ P ]

LOCATION:

PART NUMBER: ME455-0135-0001, -0002

CAUSES: CONTAMINATION, PIECE-PART STRUCTURA FAILURE, VIBRATION,

THERMAL STRESS, MECHANICAL SHOCK

EFFECTS/RATIONALE:

POSSIBLE LOSS IF VEHICLE/CREW AFTER SECOND FAILURE.

HIGHEST CRITICALITY HDW/FUNC 2/05/88 DATE: SUBSYSTEM: MECH/KBD/EPD&C FLIGHT: 3/1R ABORT: MDAC ID: 14688

ITEM: DIODE (DEPLOY CONTROL)

FAILURE MODE: SHORTED

LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY

#### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) KU-BAND SUBSYSTEM
- 3) ELECTRICAL
- 4) DEPLOY CONTROL CIRCUIT (MCA2 & 4)

5) 6)

7)

8) 9)

CRITICALITIES

FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	/	RTLS:	/
LIFTOFF:	1	TAL:	/
ONORBIT:	3/1R	AOA:	/
DEORBIT:	/	ATO:	/
LANDING/SAFING	: /		

REDUNDANCY SCREENS: A [ 2 ] B [ F ] C [ P ]

LOCATION: MID MCA2 & 4 PART NUMBER: JANTXV1N4246

CAUSES: THERMAL, VIBRATION, MECHANICAL SHOCK, PIECE-PART FAILURE

EFFECTS/RATIONALE:

NO IMMEDIATE EFFECT. ADDITIONAL FAILURES COULD CAUSE INADVERTENT DEPLOY OF THE KU-BAND ANTENNA, DAMAGING ORBITER PLB DOORS/RADIATORS. ITEM NOT IDENTIFIED IN IOA DATA DROP 2.

DATE: 2/05/88 HIGHEST CRITICALITY HDW/FUNC

SUBSYSTEM: MECH/KBD/EPD&C FLIGHT: 3/1R MDAC ID: 14689 ABORT: /

ITEM: DIODE (STOW ENABLE CIRCUIT)

FAILURE MODE: SHORTED

LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY

#### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) KU-BAND SUBSYSTEM
- 3) ELECTRICAL
- 4) BOOM STOW ENABLE (MCA2 & 4)

5)

6)

7)

8) 9)

#### CRITICALITIES

FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	/	RTLS:	,
LIFTOFF:	/	TAL:	/
ONORBIT:	3/1R	AOA:	,
DEORBIT:		ATO:	1
LANDING/SAFIN	G: /		,

REDUNDANCY SCREENS: A [ 2 ] B [ F ] C [ P ]

LOCATION: MID MCA2 & 4
PART NUMBER: JANTXV1N4246

CAUSES: THERMAL, VIBRATION, MECHANICAL SHOCK, PIECE-PART FAILURE

#### EFFECTS/RATIONALE:

NO IMMEDIATE EFFECT AFTER FIRST FAILURE. ADDITIONAL FAILURES IN CONJUCTION COULD CAUSE LOSS OF CREW/VEHICLE DUE TO INABILITY TO CLOSE PLB DOORS WHEN ANTENNA IS DEPLOYED. NOT IDENTIFIED IN IOA DATA DROP 2.

HIGHEST CRITICALITY HDW/FUNC 2/08/88 DATE: SUBSYSTEM: MECH/KBD/EPD&C FLIGHT: 3/1R ABORT:

MDAC ID: 14690

RESISTOR (STOW SIGNAL)

ITEM: FAILURE MODE: OPEN (ELECTRICAL)

LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY

#### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) KU-BAND SUBSYSTEM
- 3) ELECTRICAL
- 4) STOW SIGNAL CIRCUIT (MCA2 & 4)

5) 6)

7)

8) 9)

CRITICALITIES

	CVIIICUMITITU		
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	/	RTLS:	/
LIFTOFF:	<i>'</i> /	TAL:	/
ONORBIT:	3/1R	AOA:	/
DEORBIT:	/	ATO:	/
LANDING/SAFING:	: /		

REDUNDANCY SCREENS: A [ 2 ] B [ F ] C [ P ]

LOCATION: MID MCA2 & 4 PART NUMBER: RWR80S1211FR

CAUSES: MECHANICAL SHOCK, VIBRATION, PIECE-PART FAILURE, THERMAL

#### EFFECTS/RATIONALE:

NO IMMEDIATE EFFECT ON FIRST FAILURE. ADDITIONAL FAILURES IN CONJUNCTION COULD CAUSE LOSS OF CREW/VEHICLE DUE TO INABILITY TO CLOSE PLB DOORS. NOT IDENTIFIED IN 10A DATA DROP 2.

DATE: 2/08/88 HIGHEST CRITICALITY HDW/FUNC SUBSYSTEM: MECH/KBD/EPD&C FLIGHT: 3/1R MDAC ID: 14691 ABORT:

/

ITEM: RESISTOR (STOW SIGNAL)

FAILURE MODE: SHORTED

LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY

#### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) KU-BAND SUBSYSTEM
- 3) ELECTRICAL
- 4) STOW SIGNAL CIRCUIT (MCA2 & 4)

5)

6)

7)

8) 9)

#### CRITICALITIES

FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	/	RTLS:	,
LIFTOFF:	/	TAL:	,
ONORBIT:	3/1R	AOA:	1
DEORBIT:	/	ATO:	/
LANDING/SAFING	: /		,

REDUNDANCY SCREENS: A [ 2 ] B [ F ] C [ P ]

LOCATION: MID MCA2 & 4 PART NUMBER: RWR80S1211FR

CAUSES: MECHANICAL SHOCK, VIBRATION, PIECE-PART FAILURE, THERMAL

#### EFFECTS/RATIONALE:

NO EFFECT FROM FIRST FAILURE. ADDITIONAL FAILURES IN CONJUNCTION COULD CAUSE LOSS OF CREW/VEHICLE DUE TO INABILITY TO CLOSE PLB DOORS. NOT IDENTIFIED IN IOA DATA DROP 2.

HIGHEST CRITICALITY HDW/FUNC 3/1R 2/08/88 FLIGHT: DATE: SUBSYSTEM: MECH/KBD/EPD&C ABORT:

14692 MDAC ID:

RESISTOR (STOW ENABLE SIGNAL)

ITEM: FAILURE MODE: OPEN (ELECTRICAL)

LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY

### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) KU-BAND SUBSYSTEM
- 3) ELECTRICAL
- 4) STOW ENABLE CIRCUIT (MCA2 & 4)

5) 6)

7)

8) 9)

CRITICALITIES

HDW/FUNC ABORT HDW/FUNC
/ RTLS: /
TAL: /
3/1R AOA: / FLIGHT PHASE PRELAUNCH: LIFTOFF: ONORBIT: ATO: DEORBIT: LANDING/SAFING: /

REDUNDANCY SCREENS: A [ 2 ] B [ F ] C [ P ]

LOCATION: MID MCA2 & 4 PART NUMBER: JANTXV1N4246

CAUSES: MECHANICAL SHOCK, VIBRATION, PIECE-PART FAILURE, THERMAL

NO EFFECT FROM FIRST FAILURE. ADDITIONAL FAILURES IN CONJUNCTION COULD CAUSE LOSS OF CREW/VEHICLE DUE TO INABILITY TO CLOSE PLB DOORS. NOT IDENTIFIED IN IOA DATA DROP 2.

DATE: 2/09/88 HIGHEST CRITICALITY HDW/FUNC SUBSYSTEM: MECH/KBD/EPD&C

FLIGHT: 3/1R MDAC ID: 14693 ABORT: /

ITEM: RESISTOR (STOW ENABLE SIGNAL)

FAILURE MODE: SHORTED

LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY

### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) KU-BAND SUBSYSTEM
- 3) ELECTRICAL
- STOW ENABLE CIRCUIT (MCA2 & 4) 4)
- 5) 6)
- 7)
- 8)
- 9)

### CRITICALITIES

FLIGHT PHASE HDW/FUNC ABORT HDW/FUNC RTLS:
TAL:
AOA: PRELAUNCH: LIFTOFF: ONORBIT: DEORBIT: LANDING/SAFING: / ATO:

REDUNDANCY SCREENS: A [ 2 ] B [ F ] C [ P ]

LOCATION: MID MCA2 & 4 PART NUMBER: JANTXV1N4246

CAUSES: MECHANICAL SHOCK, VIBRATION, PIECE-PART FAILURE, THERMAL

### EFFECTS/RATIONALE:

NO EFFECT FROM FIRST FAILURE. ADDITIONAL FAILURES IN CONJUNCTION COULD CAUSE LOSS OF CREW/VEHICLE DUE TO INABILITY TO CLOSE PLB DOORS. NOT IDENTIFIED IN IOA DATA DROP 2.

HIGHEST CRITICALITY HDW/FUNC 2/09/88 DATE: FLIGHT: 3/1R SUBSYSTEM: MECH/KBD/EPD&C ABORT: MDAC ID: 14694

DIODE (DEPLOY POS. INDICATION) ITEM:

FAILURE MODE: SHORTED

LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY

#### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) KU-BAND SUBSYSTEM
- 3) ELECTRICAL
- 4) DEPLOY POSITION INDICATOR CIRCUIT (MCA2 & 4)

5) 6) 7)

8) 9)

#### CRITICALITIES

CI(T T T O: 2 T T T T T T T T T T T T T T T T T T		
HDW/FUNC	ABORT	HDW/FUNC
/	RTLS:	/
1	TAL:	/
3/1R	AOA:	/
/	ATO:	/
: /		
	HDW/FUNC / 3/1R	HDW/FUNC ABORT  RTLS:  TAL:  3/1R AOA:  ATO:

REDUNDANCY SCREENS: A [ 2 ] B [ F ] C [ P ]

LOCATION: MID MCA2 & 4 PART NUMBER: JANTXV1N4246

CAUSES: MECHANICAL SHOCK, VIBRATION, PIECE-PART FAILURE, THERMAL

EFFECTS/RATIONALE: NO EFFECT FROM FIRST FAILURE. ADDITIONAL FAILURES IN CONJUNCTION COULD CAUSE LOSS OF CREW/VEHICLE DUE TO POSSIBLE INADVERTENT/PREMATURE DEPLOYMENT OF THE ANTENNA, DAMAGING ORBITER STRUCTURE. NOT IDENTIFIED IN IOA DATA DROP 2.

DATE: 2/09/88 HIGHEST CRITICALITY HDW/FUNC SUBSYSTEM: MECH/KBD/EPD&C FLIGHT: 3/1R

MDAC ID: 14695 ABORT:

ITEM: DIODE (DEPLOYED/XMIT SCAN ENABLE)

FAILURE MODE: OPEN (ELECTRICAL)

LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY

#### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) KU-BAND SUBSYSTEM
- 3) ELECTRICAL
- 4) DEPLOY/XMIT SCAN ENABLE CIRCUIT (MCA2 & 4)

5)

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7) 8)

9)

#### CRITICALITIES

FLIGHT PHASE HDW/FUNC ABORT HDW/FUNC PRELAUNCH: RTLS: / LIFTOFF: TAL: / ONORBIT: 3/1R AOA: DEORBIT: ATO: LANDING/SAFING:

REDUNDANCY SCREENS: A [ 2 ] B [ F ] C [ P ]

LOCATION: MID MCA2 & 4 PART NUMBER: JANTXV1N4246

CAUSES: MECHANICAL SHOCK, VIBRATION, THERMAL, PIECE-PART FAILURE

#### EFFECTS/RATIONALE:

NO IMMEDIATE EFFECT FROM FIRST FAILURE. ADDITIONAL FAILURES IN CONJUNCTION COULD RESULT IN LOSS OF CREW/VEHICLE DUE TO LOSS OF STATE VECTOR UPDATE CAPABILITY. NOT IDENTIFIED IN IOA DATA DROP 2.

HIGHEST CRITICALITY HDW/FUNC 2/09/88 DATE: 3/1R

FLIGHT: SUBSYSTEM: MECH/KBD/EPD&C ABORT: MDAC ID: 14696

DIODE (DEPLOYED/XMIT SCAN ENABLE) ITEM:

FAILURE MODE: SHORTED

LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY

### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) KU-BAND SUBSYSTEM
- 3) ELECTRICAL
- 4) DEPLOY/XMIT SCAN ENABLE CIRCUIT

5) 6)

7)

8) 9)

CRITICALITIES

FLIGHT PHASE HDW/FUNC ABORT HDW/FUNC
PRELAUNCH: / RTLS: /
LIFTOFF: / TAL: /
ONORBIT: 3/1R AOA: /
DEORBIT: / ATO: / DEORBIT: LANDING/SAFING: /

REDUNDANCY SCREENS: A [ 2 ] B [ F ] C [ P ]

MID MCA2 & 4 LOCATION: PART NUMBER: JANTXV1N4246

CAUSES: MECHANICAL SHOCK, VIBRATION, THERMAL, PIECE-PART FAILURE

EFFECTS/RATIONALE:

NO IMMEDIATE EFFECT FROM FIRST FAILURE. ADDITIONAL FAILURES IN CONJUNCTION COULD RESULT IN LOSS OF CREW/VEHICLE DUE TO LOSS OF STATE VECTOR UPDATE CAPABILITY. NOT IDENTIFIED IN IOA DATA DROP 2.

DATE: 2/10/88 HIGHEST CRITICALITY HDW/FUNC

SUBSYSTEM: MECH/KBD/EPD&C FLIGHT: 3/1R MDAC ID: 14697 ABORT: 

ITEM: FUSE (DEPLOY/XMIT SCAN ENABLE)

FAILURE MODE: OPEN (ELECTRICAL)

LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY

### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) KU-BAND SUBSYSTEM
- 3) ELECTRICAL
- 4) DEPLOY INDICATION/XMIT SCAN ENABLE CIRCUIT

5) 6)

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8) 9)

CRITICALITIES

HDW/FUNC ABORT HDW/FUNC
/ RTLS: /
TAL: /
3/1R AOA: / FLIGHT PHASE PRELAUNCH: LIFTOFF: ONORBIT: DEORBIT: LANDING/SAFING: / ATO:

REDUNDANCY SCREENS: A [ 2 ] B [ F ] C [ P ]

LOCATION: MID MCA2 & 4 PART NUMBER: ME451-0018-0200

CAUSES: MECHANICAL SHOCK, VIBRATION, THERMAL, PIECE-PART FAILURE

### EFFECTS/RATIONALE:

NO IMMEDIATE EFFECT FROM FIRST FAILURE. ADDITIONAL FAILURES IN CONJUNCTION COULD RESULT IN LOSS OF CREW/VEHICLE DUE TO THE INABILITY TO PROVIDE STATE VECTOR UPDATE CAPABILITY. NOT IDENTIFIED IN IOA DATA DROP 2.

HIGHEST CRITICALITY HDW/FUNC 2/10/88 FLIGHT: 3/1R SUBSYSTEM: MECH/KBD/EPD&C ABORT: MDAC ID: 14698

DIODE (STOW INITIATE) ITEM: FAILURE MODE: OPEN (ELECTRICAL)

LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY

### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) KU-BAND SUBSYSTEM
- 3) ELECTRICAL
- 4) STOW INITIATE CIRCUIT (MCA2 & 4)

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#### CRITICALITIES

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FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
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ONORBIT:	3/1R	AOA:	1
	J/ III	ATO:	,
DEORBIT:	. /		•
LANDING/SAFING	: /		

REDUNDANCY SCREENS: A [ 2 ] B [ F ] C [ P ]

LOCATION: MID MCA2 & 4 PART NUMBER: JANTXV1N4246

CAUSES: MECHANICAL SHOCK, VIBRATION, THERMAL, PIECE-PART FAILURE

### EFFECTS/RATIONALE:

NO EFFECT FROM FIRST FAILURE. ADDITIONAL FAILURES IN CONJUNCTION COULD CAUSE LOSS OF CREW/VEHICLE DUE TO INABILITY TO CLOSE PLB DOORS WITHOUT CAUSING STRUCTURAL DAMAGE TO DOORS. NOT INCLUDED IN THE IOA DATA DROP 2.

DATE: 2/10/88 HIGHEST CRITICALITY HDW/FUNC SUBSYSTEM: MECH/KBD/EPD&C

FLIGHT: 3/1R MDAC ID: 14699 ABORT:

ITEM: FUSE (STOW INITIATE) FAILURE MODE: OPEN (ELECTRICAL)

LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY

### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) KU-BAND SUBSYSTEM
- 3) ELECTRICAL
- 4) STOW INITIATE CIRCUIT (MCA2 & 4)

5)

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8) 9)

#### CRITICALITIES

HDW/FUNC ABORT HDW/FUNC FLIGHT PHASE RTLS: TAL: AOA: PRELAUNCH: 1, / LIFTOFF: / 3/1R ONORBIT: / DEORBIT: ATO: LANDING/SAFING: /

REDUNDANCY SCREENS: A [ 2 ] B [ F ] C [ P ]

LOCATION: MID MCA2 & 4 PART NUMBER: ME451-0009-1001

CAUSES: MECHANICAL SHOCK, VIBRATION, THERMAL, PIECE-PART FAILURE

#### EFFECTS/RATIONALE:

NO EFFECT FROM FIRST FAILURE. ADDITIONAL FAILURES IN CONJUNCTION COULD CAUSE LOSS OF CREW/VEHICLE DUE TO THE INABILITY TO CLOSE PLB DOORS WITHOUT STRUCTURAL DAMAGE TO THE DOORS. NOT INCLUDED IN THE IOA DATA DROP 2.

#### APPENDIX F

## NASA FMEA TO IOA WORKSHEET CROSS REFERENCE/RECOMMENDATIONS

This section provides a cross reference between the NASA FMEA and corresponding IOA analysis worksheet(s) included in Appendix E. The Appendix F identifies: NASA FMEA Number, IOA Assessment Number, NASA criticality and redundancy screen data, and IOA recommendations.

Appendix F Legend

Code Definition

None.

APPENDIX F

NASA FMEA TO IOA WORKSHEET CROSS REFERENCE / RECOMMENDATIONS

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	: MECH/PBD-5160	1 1	1	i	1 1	1.	:	1	1
	MECH/PBD-5170	11		1	11	1	;	1	:
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	: MECH/PBD-5175	11	1,	1	1.1	1	1	ī 1	·
	: MECH/PBD-5177	11		1	1.1	1	1	4	1
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	MECH/SDM-9107	11	, ;				1 I 1 E	1	1		i			1
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	MECH/VDM-8516	11	1		n	۶	11	ĺ,						1
1-58-380101-1	MECH/VDM-8102		2/1R	: 1	Þ	٢	11	,	. !					1
)1-58-380102-1	MECH/VDM-9100	! !	1/1				: 1		, !	!				1
)1-58-380103-1	! MECH/VDM-8100A		1/1				1 1	1	,	1		! !		L i
)1-5B-380104-1	: MECH/VDM-8102A	13	2/1R						,	1		1		i.
)1-38-30414 ( ;	; MECH/VDM-8103A	1 1	2/18			6	i		i i	i L				!
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01-58-380106-3	MECH/VDM-3105	1.1	1/1	i				;	1	i		; I		1
01-58-380107-1	MECH/VDM-8104	1.1	1/1	1				i	I	1		1		1
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01-58-380108-1	MECH/VDM-8101A	1 2	1/1					1 1	1	i		i		1
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01-58-380113-1	MECH/VDM-8103F				i i			1 1	1	1				!
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01-5B-3B0114-1	MECH/VDM-81030		1 2/	18	; P	P	P	1 1	1	;		1		1
†	MECH/VDM-8104		1 2/	18	; P	F	p	1 1	1			Ì		1
01-58-380114-3	MECH/VDM-8103		(† 2)	/1R	1 P	F	P	11	1	}		l ł		i
1	MECH/VDM-8104	_	$\{1, 2, 4, 1, 1, 2, \dots, 4, 1, 2, \dots, 4, 1, 2, \dots, 4, 1, 2, \dots, 4, 1, 2, \dots, 4, 1, 2, \dots, 4, \dots, 4, 2, \dots, 4, \dots, 4, 2, \dots, 4, \dots, 4, 2, \dots, 4, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, \dots, $		1	•		11	1	•		1		i 1
01-58-380115-1	MECH/VDM-8105				!			; f	1	1		i		i
1	MECH/VDM-B106			/1 /1	!			11	1	!		1		i
: 01-58-380115-2	MECH/VDM-8103	_			1			1.1	1	1		1		
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01-58-380115-3	: MECH/VDM-8103	-	11 2	71K 010	1 5		,	i k	1			1 i		;
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ORIGINAL PAGE 18

MASS   TOA		DENTIFIERS	1	NASA	ruuk ::	QUALITY 10A RECOM	MENDATIONS #	
O.1-58-30013-1						SCREENS	) OTHER	 ! IS
O1-58-30013-1   MECH/VDM-8102D   17/1   17	01-58-380116-1	;==========; ! MECH/UBMLO+AAB	}=====:	:========		=	====================================	; {===
101-58-300119-1   MCCM/VDM-8100E   1/1				i	1	i	1	!
0.1-55-300120-1	-			IFFP;	1 /	1	i i	,
01-58-30120-1				;	1 /	1	!	,
O1-58-380122-1	-		• • •	1	1 /	1	, ,	<b>.</b>
C1-58-380122-3				1	1 /	1		
C1-58-380122-3	. AT_MD_SQNITX-1		2/1R	PPP:	1 /		' !	
MECH/VDM-BIOSE	: Af 55 755:55 -		2/1R	IPPP!	l = l		'	
01-58-380123-1   NECH/VDH-8105B   1/1	: 01-98-980175-3		2/1R	PPP!	1 /			
MECH/VDM-BIOSB   1/1	. At St waster .		2/18	PPP;	,			
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MECH/VBM-BIO3M   1/1			1/1			i i	1	
MECH/VDH-B103M   1/1	01-58-380123-2	MECH/VDM-8103M				) 	÷	
### ### ### ### ### ### ### ### ### ##		i trestroner -			1	1	4	
#ECH/VDM-8104M	01-58-380123-3				/	i (	i	
01-58-380125-1   MECH/VDM-8102E   2/1R   F   F   P   P   01-58-380127-1   MECH/VDM-8101E   1/1   01-59-380129-1   MECH/VDM-8101E   1/1   01-59-380129-1   MECH/VDM-8101E   1/1   01-59-380129-1   MECH/VDM-8101F   2/1R   F   F   P   P		1			,	<u>{</u>	;	
	01-58-380125-1	1 Mean man -			1	1	4	
01-58-380127-1	01-5B-380126-1	1 110001		' ' ' ' '	1	!	!	
01-59-380128-1   MECH/VDM-8103D   2/1R   F F P   /	01-58-380127-1				Ι	1	<u> </u>	
MECH/VDM-8103D		( Memory and a			/ :	1	:	
MECH/VDM-9104N   2/18   F F P   /					I = I	į	1	
01-58-380130-1					/ }	į	:	
01-58-380130-1   MECH/VDM-8103P   1/18   P P P   7	01-58-380179-1	I MEGICALE.		FFFH	1 1	1		
MECH/VDM-91040					1 1		,	
MECH/VDM-B1030	11 12 000150 1			P P P 11	/ :	1	, F	
MECH/VDM-8104P	01-58-790170-7	I Name of the second		PPF	J = I	1	,	
MECH/VDM-8105C	41 90 000100-3	£ 1499-9-1-1-1			I = I	1	i	
MECH/VDM-8104B   1/1	åt_50_700+ <b>7</b> + +		2/1R	P F P !!	7 :	!	i	
11-59-380131-2	Ar 00.030101-1		1/1 + 1	1 F	7 1		i	
11-5B-J80131-3	):_55 70A+7+ 5		1/1	! !	7 1		i	
MECH/VDM-8104R			1/1	11	7 1		:	
MECH/ESP-2100			2/1R		<i>j</i> ;	1	:	
MECH/ESP-2101	72-2074-5100-1	MECH/ESP-2100	1/1		7 1	1	;	
MECH/ESP-2102			1/1		f = f	i	į	
MECH/ESP-2103		1 Laboration and a second		11	7 1	į	: •	
MECH/ESP-2104		* <del>.</del>			/ 1		•	
MECH/ESP-2105					7 1	į	:	
MECH/ADP-1101A			-		7 1	i	!	
MECH/ADP-1102					7 ;		!	
MECH/ADP-1103	2-4-052000-2						1	
-4-052000-4				• • • • • • • • • • • • • • • • • • • •				X
-4-052000-5   MECH/ADP-1102A     2/1R   P P P     2/1R   P F P     X	2-4-052000-4	-				F P	:	X.
-4-052000-6	?-4-052000-5					;	1	
-4-052000-6							!	(
MECH/ADP-1103B	-4-052000-6	/ News.				FP!		-
-4-054000-1	-	1 11==		_		F P ;		
-4A-593100-1 HECH/PH-7118   3/3   3/3   3/3   4A-593102-1   MECH/PH-17121X   1/1   1/1   4A-593202-1   MECH/PH-7109   1/1   1/	-4-054000-1	I MERHIADE ALLA				F P 1		
-9A-593192-1   MECH/PH-7120     3/3       3/3		1 DEFINATION -	,			F P !	•	
-4A-593201-1   MECH/PH-17121X    1/1		1 11000		_		1		
-4A-593202-1   MECH/PH-7109   1/1   1/1   1/1   MECH/PH-7110   1/1   1/1   1/1		1 MERCHAN		11 3.	/3 :	i	i I	
MECH/PH-7110   1/1   1/1   1/1		i MEROLENI		! ! .	/ }		1	i
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		•••	1 !			į	i	i
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## ORIGINAL TO THE OF POCK COMMENT

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)2-4A-593202-1	MECH/PH-7112		3/2R				1	3/1R	<b>!</b> P	F	P :		{ X
02-4A-593202-3	MECH/PH-7113	11	3/2R 1				11	3/1R	; P	F	P :		ł X
	MECH/PH-17122X	11	1/1				11	1	) I				:
02-4A-593203-1	MECH/PH-17123X		1/1				!!	1	i i				i
02-4A-593205-2	MECH/PH-17125X	11	• • •	p	р	Р	11	1	1				1
02-4A-593301-1	MECH/PH-17124X	11	1/1	,	•			1	1			}	1
02-4A-593301-2	: MECH/PH-7106	2 1	1/1	P	P	P		1/1	 			!	1
02-44-593302-1	: MECH/PH-7108	11	1/1	٩	9	p	1		:			<b>!</b> !	i.
		11	1/1	, P	P	p	1		}			]	į.
	: MECH/PH-7108	11	3/2R	F	F	P	}		۱ ۲	F	P	! !	! X
02-44-593302-2	( MECH/PH-7102	11	3/2R	: : F	F	þ	:		P	F	Ρ	† }	1 X
	MECH/PH-7103	1 1	2/2	, ,	p	p	;		!			; ;	!
02-4 <b>A-593302-</b> 3	MECH/PH-17126X	11	2/2 3/3	; ; ; ;	i	1			! P	F	P	!	$X = \{$
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	MECH/PH-7101	11	3/3	!			1	3/3	1			}	1
02-4A-593402-1	: MECH/PH-7119	11	3/3 2/1R	, , D	F	Р	1		1			i i	1
02-48-001-1	MECH/PBD-5104			;	,	þ	!	-	1			1	!
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	MECH/PBD-5137	11		, r	•			1 /	;				! :
	( MECH/PBD-5140	11			Г	i		1 /	!			* ·	1
02-4B-001-2	MECH/PBD-5101	- 11		1					!			1	1
	MECH/PBD-5107	- 11		1				11 /	•			1	1
	MECH/PBD-5108	1 1		1				1 1	:			1	!
	MECH/PBD-5113	1 1		i				H /	!			1	į
	: MECH/PBD-5115	i !	2/2R   1/1					!! <i>I</i>	}			•	1
02-49-002-1	MECH/PBD-5102A	11		1				11 /	:			1	1
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	; MECH/PBD-5106A	1		1				11 /	1			1	i
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i	MECH/PBD-5108C	1		1				11 /	;			i i	1
! !	! MECH/P9D-5109	1		1				:: :::				<b>!</b>	i
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i i	: MECH/PBD-51158	1		•				11 /	1			1	1
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02-48-002-3	: MECH/PBD-5107A		1 2/28					H = I	ļ			l I	ž ž
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i			1 2/28					11 /	1			!	!
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( 02-4B-003-2	MECH/PBD-5101B		2/18				P	H = I	i I			[	1
02-48-005-1	; MECH/PBD-51018		11 2/11			,	P	11 /	!			į	i i
02-48-005-4			11 3/18				p	11 /	1			1	i
1 02-48-005-5	( MECH/PBD-5105A		:: 3/10 :: 1/1	1	,	•	•	11 /	;			1	l l
; 02-4B-006-1	MECH/PDB-5122		;; 171 }}					; 1 ; 1	,			•	!

Head Subber	1DE	NTIFIERS	::	AEA	!	IOA RECOMM	ENDATIONS #		
0.2-48-008-2   MECH/890-5119A   1/1   7   7   7   7   7   7   7   7   7			HW/F	A B C		1 A B C 1	(SEE LEGEND CODE)	: ISSU	: E :
02-48-006-5	02-48-006-2	: MECH/P80-5111A		 	;======   /	;======;= !		;===== !	== ¦
MECH/PBD-S11SC			11 2/1R	1 P P P 1	1 /			1	:
192-48-007-1	02-48-006-5		1 2/18	1 P P P 1	1 /	1			:
O2-48-007-2			1 2/1R	IPPP:	! /	1		1	!
02-48-007-3				1 1	1 /	1 1		!	1
02-48-007-4						;		i i	1
02-48-008-1	· · · ·					!			;
MECH/PBD-5139						! !		:	!
02-48-008-2	1 02-48-008-1					? !	;	!	i
O2-48-099-1	1 07-4 <b>0</b> -000-0					1			1
02-48-101-1	· - · · · -						;		i
O2-48-106-1   MECH/PBD-5124   Z/IR   P NA P   /									1
02-48-107-1	· -						į		i
172-48-108-1						i			
02-48-109-1						i	i		į
MECH/PBD-5125						i ,	,		1
MECH/P8D-5126   171   1	02-48-110-1					1	i		i
O2-48-112-1	1						i ,		i
MECH/PBD-5123     2/1R   P F P   /	02-48-112-1					!	i !		
MECH/PDB-5124	02-48-113-1	MECH/PDB-5123		, -	/ !	!	1		
02-48-14-1		MECH/PD8-5124 (	2/1R :		7	: !	1		
02-48-140-2	02-4B-113-2	MECH/PD8-5123A /	2/1R (	P NA P II	1				i
02-48-200-1			2/1R ]	P NA P 11	7 1	1	1		
MECH/PBD-5161   1/1		! MECH/PBD-5145	2/18	PPPH	/ 1	1			1
02-48-201-1	02-48-200-1			† † 1 :	/ 1	1	1		
02-48-202-1					I = I	į	) 		1
MECH/PBD-5156		===.		, , ,	I = I	* ·	1		!
MECH/PBD-5157A	72-98-272-1				7 1	F 4	!		i
MECH/PBD-5162	: A7_40_000_0				/ 1	;	!		!
MECH/PBD-5146	1 02-40-202-2				1 1	ţ	1 ;		1
MECH/PBD-5147     2/1R   P P P	: 07-48-203-1				/	!	1		ì
MECH/PBD-5151     2/1R   P P P     /	1				/ 1	i.	1		i
MECH/PBD-5151     2/1R   P P P     /	i t				7 1	i			ř
MECH/PBD-5152	1				/ i	į	1		
MECH/PBD-5153	1				1 1	i 1	1		ì
02-48-203-2	1				/ 1	i 1	į.		
02-4B-204-1	02-48-203-2				7 1	!	•		į
MECH/PBD-5165	02-4B-204-1	MECH/PED-5164	1/1 1		1	!	i I		
02-48-204-2	1	! MECH/PBD-5165  :	1/1		7 1	į	· !		
MECH/PBD-5157			1/1 1	1:	/ (		1		1
02-48-205-1	02-48-204-2	MECH/PBD-5155	1/1	1 1 F 1	1 1	1	!		į
02-48-207-1					1 1	1	:	,	!
02-48-207-2					1 1	!	1	!	!
02-4B-209-1   MECH/PBD-5169    1/1					$\mathcal{F}_{-}$ :	1	II.	!	
02-48-209-2   MECH/PBD-5166    2/1R   P NA P    /     MECH/PBD-5169    2/1R   P NA P    /					1 1	1	1 2	,	
MECH/PBD-5169		==			/ 1	1	<b>i</b> :	1	!
	VE TO 19771				I = I	2	1	i	
		!	271H ( )		/ }	!	*	i	
	=======================================	;;; ==================================	;		;		<b></b> -	i	

IDENT	IFIERS	11	NA:	3A			 		U1 	A RECO		1UR5		
MASA	ISA	11 CF		SCR A				CRIT	1 SC	REENS B C	:   (SI	OTHER SE LEGEND	•	: ISBUE ¦
FMEA NUMBER	ASSESSMENT NUMBER	:: M# :==:!:==	/	n ====	, :===	===	;	=====	:   ===	=====	;====	=======	======	=====
======================================	MECH/PBD-5127		1/1				1 1	1	i I		1			1
2-40-400-1	: MECH/PBD-5128	11 :	1/1 1				1 1	1	1		1			1
	MECH/PBD-5129		1/1 1				) i	1	i		!			
	MECH/PBD-5130		1/1					1	1		1			1
	: MECH/PBD-5131		1/1				! !	1	ŀ		1			i
	MECH/PBD-5132		1/1				! ! ! !	1	f i		†			
n an anz n	: MECH/PBD-5128A		1/1				11	1	i		ŧ.			1
2-48-403-2	MECH/PBD-5131A		1/1				1 1	7	1		3			
m an A49688.1	: MECH/ETU-3116		1/1				1 1 1 i	7	ř :		i i			i i
2-40-012000-1	: MECH/ETU-3119		1/1				!!	1	!		1			i
2-4D-012100-1	MECH/ETU-3121		1/1 1				11	1			i i			1
	: MECH/ETU-3123		1/1				11	1	1		1			1
	1 MECH/ETU-3127		1/1				11	1	Į i		ł.			i
.m. am. A4046A 0	: MECH/ETU-3120		1/1				1 3	1	1		1			i
2-4D-012100-2	MECH/ETU-3122		1/1				! !	1	1		i			1
	: MECH/ETU-3126		1/1	!			1.1	1	1		1			i
	MECH/ETU-3111		2/1R	p	ρ	Р	11	1	!		1			ž
)2-4D-012600-1	MECH/ETU-3113		2/1R	P	P	P	11	1	i i		i i			;
	MECH/ETU-3115		2/18	9	P	P	11	1	i		î I			!
	; MECH/ETU-3117B	11	2/1R	 ! P	ρ	Р	1 }	1	!		1			1
	MECH/ETU-311/B	11	2/1R		F	Р		1			!			i.
)2-4D-012600-3	; MECH/ETU-3117	11	1/1	•	•	•	- 11	1	1		} 			1
02-4D-012600-4	MECH/ETU-3115A		2/1R	! F	۶	p	11	Ī	:		1			l i
02-40-012600-5		1 1	2/1R	. F	, F	p p		i	1		i			7
	! MECH/ETU-3135	11	2/1R	! F	۲ '	۶.	11	,			ľ			į
	MECH/ETU-3136	1 !		: Р	P	p	11	1	1		3			!
02-4D-012700-2	; MECH/ETU-3124	       1	1/1	!	,		11	7	1		:			i
02-4D-013000-1	MECH/ETU-3135A	11	1/1	1			11	7	*		!			1
02-40-013300-1	: MECH/ETU-3137	11	1/1	!				7	!		1			1
	MECH/ETU-3139	11	1/1	1			11	,	1		1			1
	MECH/ETU-3141	11	1/1	•			11	j	1		1			1
02-40-013300-2	: MECH/ETU-3128 : MECH/ETU-3129	: :	1/1	•		X		Ī	1					1
		       	1/1	!			- 11		1		!			
	MECH/ETU-3138	11	1/1	)			11				1			4
	MECH/ETU-3140	11	1/1	!			11	· /	1					!
	MECH/ETU-3142   MECH/ETU-3130	1 !	2/1R	· · p	P	P	1 1	1	!		;			i
02-4B-013600+1	MECH/ETU-3132	11	2/1R			ė.	11	1	1		1			
	MECH/ETU-3134	11	2/1R			P		j	į		3			i
	MECH/ETU-3136A	11	2/1R				11		1		1			1
	( MECH/ETU-3133	11	2/1R				1 1		;		1			1
02-4D-013600-3	MECH/ETU-3133	1 1	1/1	!	•	•	11		1		1			ž t
02-4D-013500-4	MECH/ETU-3116B	11	2/1R	! F	F	Р	- 1		1		i			i i
02-4D-013600-5	MECH/ETU-3110B	11	2/1R				1		-		!			1
	MEDH/ETU-3131	1 1	2/1R 2/1R				!		;		į			i
	MECH/ETU-3132A	1 1	2/1R						i		!			;
		11	2/1R 2/1R						!		1			
02-4D-013700-2	: MECH/ETU-3143	11	$\frac{1}{1}$	!	'	,	;		!		,			1
07-40-014000-1	MECH/ETU-3108	1 I 1 I	1/1	i !			1		1		į			1
02-4D-014000-3	: MECH/ETU-3106	11	2/1R	; 5	, ç	. 6			į		ŧ			}
02-40-014500-1	MECH/ETU-3101	1 1 1 1 1 1	2/1R 2/1R						1		į			; i
	MECH/ETU-3103	11	£/ 17.	; <b>F</b>	f	- 1	1				,			1

I DE	INTIFIERS	1	;	lasa	ł		1	1	IDA RECOMM	ENDATIONS #	
NASA FMEA NUMBER	: IDA : ASSESSMENT NUMBI	ER :	H₩/F	! A	-	2	i i	   CRIT   HW/F	SCREENS S	OTHER (SEE LEGEND CODE)	1981 
02-4D-014600-1	#ECH/ETU-3105	;;=== ;;	_		F	=== Р	==; {;	=======   /	;======; ;	=======================================	.;==== :
	: MECH/ETU-3107	! !	2/1R	! P	F	P	11	1	1 1		1
02-40-014600-3	MECH/ETU-3104	1 1	2/1R	1 8	F	Ρ	1 3	I	1		!
02-40-14700-2	: MECH/ETU-3109	1 1	2/1R	; P	Ρ	P	1 !	1	1 ;		!
02-4F-032001-1	: MECH/SDM-9100A	;;	2/1R	{ P	P	P	1 1	1	1 .		} I
02-4F-032001-3	HECH/SDM-9100	1 1			F	ρ	1.1	•	1 1		1
	MECH/SDM-9101A	1 1	3/1R		F	P	1 1		!		1
02-4F-032001-4	#ECH/SDM-9101	! !			F	p	1 1		1		i
02-4F-032001-5	MECH/SDM-9100B	1 1	3/1R	l F	F	P	1 !		1 !		í
02-46-151-2	MECH/FBR-6211	11	1/1	ì			1 1		;		i
00 10 151 7	MECH/PBR-6212	} {	1/1	!			1 1		1		i
02-46-151-3	MECH/PBR-6212A	- ! !	1/1	;			1 }	1	:		i
02-46-152-1	MECH/PBR-16513X	11	1/1				- ; ;	/	!		1
92-46-152-3 92-46-153-1	! MECH/PBR-5213	11	1/1	í			11	3/3			! X
02-46-133-1 02-46-153-2	! MECH/PBR-6201 ! MECH/PBR-6203	11	2/1R	•	_	_	11	1	i		1
02-46-154-2	1 MECH/PBR-6207	11	2/1R 1/1	; P	F	F	11	/	:		1
02-46-154-3	MECH/PBR-620B	11	1/1	1			11	I I	: i	1	i
02-46-155-1	MECH/PBR-6205	11	1/1	1 F			11	7	i :		
02-4G-155-2	MECH/PBR-6204	- 11	3/1R	: ! <b>F</b>	F	p	! !	1	l 1 1		,
02-4 <b>G</b> -156-1	MECH/PBR-6301	11	2/1R		F	P	11	<i>i</i> .	1		
02-46-156-2	MECH/PER-6302		2/1R		NA	P	* 1	, , , , , , , , , , , , , , , , , , ,			
02-46-157-1	MECH/PBR-16511X	11	2/1R :		F	p	11	/ !			
02-4G-158-1	MECH/PBR-6211A	11	1/1			•	11	7			
02-46-175-1	MECH/PBR-6113	! !	2/18	p	ρ	ρ	11	1	:		
)2-46-179-2	MECH/PBR-5103	::	3/1R		F	Р	1.1	1 1			
2-46-180-1	! MECH/PBR-6107	1 1	2/1R /		p	P	11	/ 1	1		
22-46-180-2	: MECH/PBR-6108	1 1	2/1R 1	P	ρ	p	1 !	/ 1	1		
)2-4G-181-1	MECH/PBR-6111	1 1	2/18 :	P	NA	P	}	7 1	5 1	•	
)2-46-181-2	MECH/PBR-5112	; ;	2/1R	p	NA	P	1 1	3/3 !	;	i	Y
2-46-182-3	MECH/PBR-6112A	1 1	2/1R (	P	F	P	i i	3/3 1	i	}	X
)2-46-183-1	: MECH/PBR-6105	11	2/1R 1	F	F	۶	11	3/3 1	<i>I</i> 1	1	$\ddot{k}$
2-46-183-2	MECH/PBR-6104	1 1	3/18 (			Р	1 1	/ {	I I	1 4	
2-46-184-1	) MECH/P9R-16514X	: !	3/1R	Ρ	۶	P	1 1	I = I	!	1	
2-49-186-1	MECH/PBR-5302A	1 1	1 1				1:	I = I	i	7	
2-46-301-2	MECH/PBR-16512X	11	2/1R 1			P	11	ļ	}	;	
5-4 <b>5G-</b> 2001-01	MECH/PBR-6501	- 11	2/1R :		•	Ď	1 1	1 1	1	!	
	/ MECH/PBR-6502	1 1	2/1R 1		,	Ρ	11	/ 1	;	!	
	: MECH/PBR-6503	11	2/1R 1				( )	/ [	į	1	
5-4AB-2026A-2	: MECH/PBR-6504 : MECH/VDM-8107D	1:	2/1R	•			11	/ 1		!	
G-949-74584-7	MECH/VDM-810/D	11	2/18		P		11	/ 1		1	
	MECH/VDM-8502D		2/1R 1		•		11	<i>1</i>	i .		
5-6AB-2027-2	MECH/VDM-800ZD	11	2/1R   2/1R				11	$\frac{1}{2}$	1	1 4	
4 5118 EVEL E	: MECH/VDM-8109A	11					11	$-\frac{I}{I} - \frac{1}{I}$	i i	i	
	: MECH/VDM-8502A	11	2/18 1		7 ( 9 )		: 1	$\frac{I}{I} = \frac{1}{1}$	i !	i	
5-6AB-2029	MECH/VDM-81078	11	2/18 1		, i		11	/ : / !	ŧ	1	
· ··-	MECH/VDM-81088	11	2/1R		P 1		11	/ 1 / /	1		
	MECH/VDM-85028	11	2/1R		р р			/ !	i.	i 1	
5-6AB-202 <b>9-</b> 2	MECH/VDM-8107C		2/18 1		P		11	$\frac{1}{I}$	:	;	
	1	11		•	. '					T.	

## ORIGINAL FAGE 15 OF POOR QUALITY

IDENTI	CIERG	NAS	SA S	i 1		10	A-RECUMM	ENDATIONS \$	
NASA			20112211			: SC	REENS :	OTHER (SEE LEGEND CODE	ISSUE   
FMEA NUMBER	:	=======	**======	;	=====	:===	:======	1	{
:=========== )5-6AB-2029-2		1 2/1R 1	PPP	11	1	,		!	1 1
02-988-1047-1	MECH/VDM-8502C	1 2/1R 1		11	1	1		!	1 1
05-5AB-2030A-2	: MFCH/VDM-8107E	) 2/1R		11	,	,		}	1 i
03-980 2000N F	I LECTO ARU OTAL	1 2/1R	, , ,	• •	i	1			1
	: MECH/VDM-8502E	(1 2/1R )		11	- I - I	1			1 1
05-6AB-2031A	; ((CO)), + O() - O	11 2/1R		11	1	!		1	
07-DMD 70019	1 HERIT 4811 APA	11 2/1R		11	<i>1</i>	1		i i	i i
	I MERCIA ARTI GRAF	11 2/1R		11	i I	!		1	:
05-5AB-2126-2	: UEDULABIL DOAD	11 2/1R		11	,	•		1	i
05-6AB-2128-1	; ITEL(1) FD11 BBGGE	11 2/1R		11	, ,	1		1	1
05-6AB-2129-2	I WERLY ARK SOAR	2/1R	I C i ,	11	j			1	i i
05-6AB-2130-1	MECH/VDM-8503D	11 2/1R		1 1		ì		1	1
05-6AB-2130-2	MECH/VDM-8503E	11 2/1R	1 5 5 5	11		!		1	•
05-6AB-2133-2	: MECH/VDM-8503J	11 2/1R		1 1		· !		1	
05-6AB-2134-2	MECH/VOM-8503F	11 Z/1R		1		į		!	<b>!</b> }
05-6AB-2135-1	MECH/VDM-85036	11 2/1R	TE E	!		!		į į	!
05-4AB-2138-1	: MECH/VDM-8503H	1 2/1R		3		ļ		r 1	3
05-6AB-2139-2	! MECH/VDM-85031	11 2/18				•		!	i
05-6AB-2177-1	HECH/VDM-8503A	11 2/1R	1 1 1 1		•	•		i i	1
: 05-6AB-2201-2	; MECH/VDM-8511A	2/1R	1111		1 1			Į.	1
1 00 DUD 2511 -	MECH/VDM-8512A			•	1 /	!		1	i
1	: MECH/VDM-8513A				$\frac{1}{3}$	į		<u>}</u>	i i
1	: MECH/VDM-8517A				1 /	1		1	; 4
05-5AB-2202-2	: MECH/VDM-8511		11111		!! /	:		! !	1
1 03 000 2202 -	MECH/VDM-8512		\   F   1   1	, P	11 <i> </i>	!		1	j
1	MECH/VDM-8513		7 1 1 1 1		$\Pi = I$	!		l	1
i	MECH/VDM-8517		7, ; F 1 '		$\frac{\alpha}{\Pi} = \frac{\ell}{\ell}$	:		i i	:
; 05-6AB-2204-2	: MECH/VDM-85118	–	R!PF!		11 /	:		!	i I
i	: MECH/VDM-8512B	11 2/1		•	$\frac{11}{11}$ $f$	:	!	Į.	i
i i	: MECH/VDM-8513B	11 2/1		•	11 /		! !	į.	1
1	MECH/VDM-85179		n + i	•	$\frac{11}{11}$		!	1	;
05-6AB-2252-1	: MECH/VDM-8507		.14 3 7 -	,	$\frac{11}{11}$ $\frac{1}{I}$		!	1	i
!	MECH/VOM-8508		11 1 1 1	P P	$\frac{11}{11}$ $I$		}	!	1
05-6EB-2000-1	: MECH/PBD-5502		IRIPF IRIPF		11 /		1	1	
05-6EB-2001-1	MECH/PBD-5504		IR I PF	þ	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	·	)	i ì	
05-6EB-2001-2	HECH/PBD-5504A	• •	irir r Irip P	P	11 /		F E	!	•
05-628-2004-1	MECH/PED-5507			þ		,	) 1	1	•
05-6EB-2004-2	: MECH/PBD-5507A			P	11 /	!	i i	i i	i •
1	! MECH/PBD-5508		IR I P P	P		/	1	i 1	
: 05-6EB-2005-1	MECH/PBD-5507B		1R   P P	P	11 7	į	1	ì	i
1 1	MECH/PBD-5508A		1R I P P	ρ	11	ļ	1	E I	
05-6EB-2005-2	MECH/PBD-5507C		IR I P P	P	) I	1	ł	1	i ,
1 1	MECH/PBD-5509B		IR I P P	P	11	1	i	1	: -
05-6EB-2010-1	: MECH/PBD-5504B		IR I P P	۴	1 1	į	i	!	ì
; 05-4EB-2010-2	( MECH/PBD-5504C		IR I P P	Р	11	!	1	1	; 1
; 05-6EB-2011-1	; MECH/PBD-5505		IR I P P	P	11	1	i	1	i.
05-6ED-2026-3	MECH/ETU-3505		/1R   P P	٠.	11	1	1	1	
\$ 1	MECH/ETU-3506		/1R   P P	P	; ; 1 ;	1	1	1	E T
: 05-6ED-2026-4	MECH/ETU-3505A		/1R   P P	P	11	,	1	1	i b
1	: MECH/ETU-3506A	11			11		1		:=========

	IDENTIFIERS ;	 	NASA	3 1 1 i	IOA RECOM	MENDATIONS *	
NASA FMEA NUMBER	loa ;   Assessment Number ;	HW/F	IABC:	 	SCREENS	OTHER (SEE LEGEND CODE)	:   ISSU 
05-4ED-2027-2	MECH/ETU-3507			======	= { ====== ;	22222222222222222	:{=====
	MECH/ETU-3508			1 /	· · · · · · · · · · · · · · · · · · ·		:
05-6ED-2027-3	! MECH/ETU-3507A	2/1R					<i>i</i>
05-6ED-2028-3	MECH/ETU-3508A			1 7	1		i ,
03-950-2028-2	MECH/ETU-3509	2/1R		1 /	1		1
05-4ED-2030-3	MECH/ETU-3510	2/1R			;		į
40 020 1000 G	MECH/ETU-3509A	2/18			1		!
05-6ED-2126-2	MECH/ETU-3510A	2/1R :			1		
-	MECH/ETU-3503E	3/1R /			!	:	
05-6ED-2127-1	MECH/ETU-3501	3/1R :			!	!	
	MECH/ETU-3502	2/1R /		•		9 1	
05-6ED-2127-2	MECH/ETU-3501A	2/1R 1			<i>i</i>		
	MECH/ETU-3502A	2/1R 1			· .	1	
)5-6ED-2129-1	MECH/ETU-35018	2/1R :		/	1		
E (FB 0470 B	MECH/ETU-3503	2/1R 1	P P P !!	7	·	i	
5-4ED-2130-2	! MECH/ETU-3501C	2/1R		1	; ;	i i	
5-6ED-2131-1	MECH/ETU-3503A	2/1R		7 1		i I	
0 0FB 1101-1	MECH/ETU-3501D	2/1R		I = I		•	
5-6ED-2131-2	MECH/ETU-3503B	2/1R		1 1	<i>‡</i>	;	
2.0. 2	MECH/ETU-3503C		PPP	1 !	1	1	
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5-5ED-2250-1	) MESU JESU		PFPII	- I i	;	1	
5-6ED-2251A-1	MECH/ETU-3522E		P F P 1!	/ 1	•	5 1	
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-6ED-2251A-2	MECH/ETU-3522F	2/1R ! !	P F P	7	!	i	
-6E9-22518-2	l vestiment	2/1R   F	P F P	7 1	į	i I	
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-6ED-2252B-2		5/18   P 5/18   P		/ 1	1	1	
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-6ED-2257-2	MECH/ETU-35229     3	/1R   P		7 1	i I	j i	i
(FB 0055) -	MECH/ETU-3523D     3	/18   P	FPH	/ :	1 1		
6ED-2257A-2	MECH/ETU-3523B     3	/1R   P	F P !!	7 1	:	i	
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gec-1007-1		/1 1	11 2	2/1R   P	F P :	1	X 1
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	MECH/ADP-1505A     1/			/IR   P	F P :	4	X :
	MECH/ADP-1506A			/IR   P	F P {	÷ †	χ :
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	MECH/ADP-1540	11 1/1		11			•	i ŷ
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05-4EE-2003-1	: MECH/ADP-1524A		IR I PPP	1				i.
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05-488-2003-2	: MECH/ADP-1524B	11 2/	IR I P P F		1 2/1R		i i	
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l I	MECH/ADP-15278	11 2/	IR I P P F				1	i
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03 0EE 1000 E	MECH/ADP-1530B	1 1	2/1R :	p	2	P	11	2/1R	۶	P	9		1
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05-6EE-2005-1	MECH/ADP-1569	 	3/3	1			11	3/3	!			1	1
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05-6EE-2006-1	MECH/ADP-11701X	1 1					-	1	* •			į.	1
05-3EE-2007-1	: MECH/ADP-11702X	11					11	,	1			1	į
05-6EE-2008-1	: MECH/ADP-11703X	11					11	,	1			i	:
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05-4EE-2009-1	: MECH/ADP-11705X	- [ ]					1 :		1			1	
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05-6EE-2012-1	MECH/ADP-11707X	11				D	1.1		1			:	i
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05-6EE-2014-1	: MECH/ADP-1628	11		i i			: 1				þ		, X
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	MECH/ADP-1636	11		1	11			p p	1	i X		
	MECH/ADP-1637	11		1	11			PP	1			
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	MECH/ADP-1639	? !		· ·	1 !			PP	1	i X		
	: MECH/ADP-1640	11	3/3	!	11			p p	;	; А ! Х		
	MECH/ADP-1641	11	3/3	!	1 1	3/1R		рр	•	; A		
	MECH/ADP-1642	!!	3/3	!		3/18		рр	!	: А		
	MECH/ADP-1643	I 1	3/3	!	11	3/1R		рр	1	, A.		
	MECH/ADP-1644	11	3/3	!	11	3/1R		9 P	!	, A		
	MECH/ADP-1645	) I	3/3	!	11	3/1R		, . p p	1	1 A		
	MECH/ADP-1646	::	3/3	1		3/1R :		, . D D	i	i A i 9		
	! MECH/ADP-1647	11	3/3	; !		3/1R		рр	1	i A		
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	! MECH/ADP-1649	11	3/3	i	11	3/1R /		PP	i 1			
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	MECH/ADP-1655	11	3/3	i i		3/18 1		r r		Ā		
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	MECH/ADP-1659	11	3/3		11	3/1R 1		P P		X		
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	MECH/ADP-1672	1 1	3/3			3/1R :		p b	!	X		
	MECH/ADP-1673	11	3/3		! !	3/1R !		P P	1	X		
	MECH/ADP-1574		3/3		!	3/1R		P P	1	X		
	MECH/ADP-1675	11	3/3 '		1	3/1R		P P	[	X.		
	MECH/ADP-1676		3/3 :		1	3/1R		p p	1	X		
	1 MECH/ADP-1577	11	3/3 :	-	1	3/1R 1		PP 	!	X		
	: MECH/ADP-1678	11	3/3 1			3/1R 1		p s	1	¥		
	MECH/ADP-1679	: 1	3/3		1	3/1R		P P	1	X		
	MECH/ADP-1680	11	3/3		!	3/1R		p 5	1	X		
	MECH/ADP-1681	11	3/3		;	3/1R 1		РР	i :	X		
	MECH/ADP-1682	11	3/3			3/1R 1		b b	† ;	X		
	MECH/ADP-1683	11	3/3 1			3/1R		РР	!	Ĭ.		
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